

March 26, 2014

Mr. Jeff Gore U.S. Environmental Protection Agency, Region V 77 West Jackson Boulevard, HSRL-6J Chicago, Illinois 60604

RE: Year #14 Report of Groundwater Quality for the Albion-Sheridan Township Landfill; ALBO39.100.0009

Dear Mr. Gore:

On behalf of the Decker Manufacturing Corporation and the City of Albion, Michigan (Settling O&M Defendants), Hull & Associates, Inc. (Hull), developed this report to document the findings of sampling activities completed during the groundwater monitoring period from January 2013 through December 2013 at the Albion-Sheridan Township Landfill (Site). Provided in this report are the hydrologic and laboratory analytical data compiled for Year #14 groundwater sampling event conducted in accordance with the approved O&M Plan developed by SECOR International Incorporated (February 1999), as modified by the recommendation contained within the U.S. EPA's "Second Five-Year Review Report" for the Site. This report includes the results of the analysis of the annual parameter list. The collected groundwater samples were also analyzed for total metals only; analysis for dissolved metals has been discontinued. The landfill inspections completed in January 2013 and July 2013 are also discussed in the attached report.

Should you have any questions or comments, please contact me at your convenience.

Sincerely,

William G. Petruzzi, P.G.

Principal

WGP/sgd/jab

**Attachments** 

ct: Kevin Markovich-City Engineer, City of Albion (w/attachment)
Bernie Konkle, Decker Manufacturing Corp. (w/attachment)
Mary Schafer, Michigan Department of Environmental Quality (w/attachment)
Jack Grey, Corning Incorporated (w/attachment)
Eugene E. Smary and Melvin G. Moseley Jr., Warner, Norcross & Judd L.L.P. (w/attachment)
Ron Sandburg, Cooper Industries, Inc. (w/attachment)

Michael T. Coonfare, Hull & Associates, Inc.

Ryan Murphy, Hull & Associates, Inc.

# ANNUAL REPORT OF GROUNDWATER QUALITY

### FOR THE:

ALBION-SHERIDAN TOWNSHIP LANDFILL SHERIDAN TOWNSHIP, CALHOUN COUNTY, MICHIGAN

PREPARED FOR:

CITY OF ALBION 112 WEST CASS STREET ALBION, MICHIGAN 49224

703 NORTH CLARK STREET
ALBION, MICHIGAN 49224

PREPARED BY:

HULL & ASSOCIATES, INC. 3401 GLENDALE AVENUE SUITE 300 TOLEDO, OHIO 43614

SAMPLE DATE: NOVEMBER 2013 REPORT DATE: MARCH 2014



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### 1.0 INTRODUCTION

On behalf of Decker Manufacturing Corporation and the City of Albion (Settling O&M Defendants), this report was prepared by Hull & Associates, Inc. (Hull) to comply with monitoring and reporting requirements established in the approved February 1999 Operation and Maintenance Plan (O&M Plan) for the Albion-Sheridan Township Landfill (Site) as amended by the U.S. EPA's "Second Five-Year Review Report" for the Site. The information contained in this report represents the annual groundwater sampling event identified as monitoring Year #14 and includes the analysis of parameters required for the annual groundwater sampling program. U.S. EPA's "Second Five-Year Review Report" included the requirement to analyze for total metals as opposed to dissolved metals. The "Second Five-Year Review Report" was submitted by U.S. EPA in August 2007 and the resulting revisions to the sampling and analysis methodologies were implemented in the November 2007 sampling event. Therefore, total arsenic values have only been collected during the 2007 through 2013 sampling events. Analysis for dissolved metals was discontinued beginning with the 2010 sampling event. Please note that the "Third Five-Year Review Report" was completed by U.S. EPA in August 2012. No additional recommendations were identified by U.S. EPA in relation to sampling and analysis methodologies. The recommendations and follow-up actions identified by U.S. EPA in the "Third Five-Year Review Report" are discussed in Section 4 of this report.

Field activities were completed in Monitoring Year #14 in accordance with the O&M Plan as amended by the "Second Five-Year Review Report" for the Site. These activities involved the collection of water levels, and the sampling of eighteen monitoring wells screened in the shallow bedrock, sand and gravel, and deep bedrock units and one residential well in November 2013. Landfill inspections were completed in January 2013 and July 2013.

### 2.0 GROUNDWATER MONITORING

### 2.1 Sampling and Analysis

The wells required to be monitored on an annual basis consist of two residential wells (RW-04, and RW-06) and eighteen shallow bedrock, sand and gravel, and deep bedrock monitoring wells (MW-02SB, MW-03SBA, MW-04SB through MW-09SB, MW-15SB, MW-16SB; MW-02SG, MW-04SG, MW-05SG, MW-07SG, MW-10SG; MW-09DB, MW-16DB, and MW-17B (formerly known as residential well RW-07)). Figure 1 illustrates the location of groundwater monitoring wells on or near the Site. For the current sampling event, a sample was not collected from residential well RW-06 as the resident of the property was not available to grant access. The U.S. EPA was immediately notified that access to the residential well was not available. The resident will be notified in advance for future sampling events in an attempt to schedule access.

Groundwater samples were collected by a representative of Hull and were analyzed by TestAmerica Inc. of Canton, Ohio. During the November 11-12, 2013 (current) sampling event, groundwater samples were collected from eighteen shallow bedrock, sand and gravel, and deep bedrock monitoring wells and one residential well. Additionally, three duplicate samples were collected from randomly selected monitoring wells, MW-07SB, MW-07SG, and RW04. Two field blanks and one trip blank were also analyzed for quality assurance/quality control purposes. The groundwater monitoring wells were purged and sampled using low-flow sampling procedures as requested by U.S. EPA, with the exception of monitoring well MW-10SG for the current event. Conditions in the vicinity of MW-10SG prevented the sampler from transporting low-flow equipment to the well. Additionally, the residential well RW-04 sample was collected from the faucet.

### 2.2 Laboratory Analytical Data

The laboratory analytical and quality control reports developed by TestAmerica for the current sampling event are provided in Appendix A. Copies of the Chain-of-Custody and Request for Analysis forms are also provided in Appendix A. Included in Appendix B are copies of the groundwater monitoring well Field Data Sheets, Calibration Record Form, and Site Inspection Forms.

Discussions with U.S. EPA confirmed that third party validation was no longer required for the analytical data. However, the CLP-like analytical and quality control report for each sampling event will continue to be maintained in case third party data validation should later be required.

Groundwater samples collected from monitoring wells screened in the shallow bedrock, sand and gravel, and deep bedrock units and the residential monitoring well were analyzed for the annual parameter list

as required in Section 3.2.3 of the O&M Plan. This parameter list is given on Tables 7-4 and 7-5 of the Remedial Action Quality Assurance Project Plan (Woodward-Clyde Consultants, 1996) and includes the Target Analyte List (TAL) inorganics and Target Compound List (TCL) organics for all groundwater monitoring wells and residential wells included in the monitoring program at the Site. U.S. EPA's "Second Five-Year Review Report" included the requirement to analyze for total metals as opposed to dissolved metals. Analysis for dissolved metals was discontinued beginning with the 2010 sampling event.

In accordance with the approved O&M plan, the groundwater samples historically collected for metals were filtered in the field and analyzed to determine the dissolved phase concentration of the metals. In 2007, U.S. EPA stated that the groundwater sampling program should be modified to collect unfiltered groundwater samples using a low-flow sampling technique. Hull expressed concern that modifying the sampling protocols and changing from dissolved to total metal analysis could comprise the validity of the previous seven years of data. Based on these concerns, dissolved and total metals samples were collected during the 2007, 2008, and 2009 sampling events to allow for the comparison of total and dissolved metal concentrations. As the results for total and dissolved metals were found to be comparable, only total metals have been analyzed since the 2010 event.

### 2.3 Analytical Data Review

Tables 1 through 18 provide summaries of the laboratory analytical data for the inorganic and organic parameters compiled for each of the monitoring wells throughout the monitoring period. Tables 19 and 20 provide a summary of the laboratory analytical results for the residential wells throughout the monitoring period. As previously mentioned, a sample was unable to be collected from residential well RW-06 for the current event.

### 2.3.1 Groundwater Monitoring Wells

The analytical results for the current groundwater sampling event indicate that multiple parameters were reported above their respective analytical laboratory practical quantitation limits (PQLs). Please refer to Tables 1-18 for a summary of the analytical results. Of the parameters that are required to be analyzed on an annual basis, the following parameters were reported above the PQL:

- Ammonia-nitrogen was detected in 11 of the 18 wells, including MW-10SG, MW-15SB, MW-16DB, MW-16SB, MW-17B, MW-03SBA, MW-04SB, MW-04SG, MW-06SB, MW-07SG, MW-09SB; along with MW-07SG duplicate. The ammonia-nitrogen concentrations reported above the laboratory PQL range from 0.25 mg/L at MW-3SBA to 13.0 mg/L at MW-04SB.
- Total aluminum was detected in 4 of the 18 wells, including MW-04SG, MW-06SB, MW-08SB and MW-10SG; along with field blank 1. The total aluminum concentrations

reported above the laboratory PQL range from 0.058~mg/L for MW-08SB to 1.3~mg/L at MW-10SG.

- Total arsenic was reported above the laboratory PQL in 4 of the 18 wells, including MW-04SB, MW-04SG, MW-07SG and MW-15SB and was reported at 0.006 mg/L, 0.024 mg/L, 0.005 mg/L and 0.074 mg/L, respectively.
- Total cobalt was detected in 1 of the 18 wells, MW-07SG; along with MW-07SG duplicate. Total cobalt was reported at 0.0026 mg/L for both samples.
- Total manganese was detected in all wells except MW-2SG and MW-05SB. The reported concentrations of total manganese ranged from 0.018 mg/L for the MW-07SB duplicate sample to 0.740 mg/L for the MW-07SG duplicate sample.
- Total nickel was detected in 2 of the 18 wells, including MW-04SB and MW-07SG; along with MW-07SG duplicate. Total nickel concentrations were reported for MW-04SB, MW-07SG, and the MW-07SG duplicate sample at 0.0038 mg/L, 0.0034 mg/L, and 0.0033 mg/L, respectively.

The approved O&M Plan identifies 0.05 mg/L as the compliance limit for arsenic in groundwater at the Site, which was the established U.S. EPA primary DWS for arsenic at the time the O&M Plan was developed. However, the currently established primary DWS for arsenic of 0.01 mg/L is being used as the groundwater compliance limit for arsenic. Total arsenic values reported above the PQL during the current sampling event exceed the primary DWS at monitoring wells MW-15SB and MW-4SG but not at monitoring wells MW-04SB or MW-07SG. Note that total arsenic was not reported at or above the PQL in any other monitoring wells during the current event. As required in Section 3.2.10 of the O&M Plan, an arsenic isoconcentration map with spatial distributions (using total metal values) in groundwater for the shallow bedrock unit is illustrated on Plate 1.

Time-series plots, included in Appendix C, were developed for aluminum, ammonia-nitrogen, arsenic, and manganese for monitoring wells at which these parameters have often been reported above the PQL. Note that the time-series plots represent both the total and dissolved aluminum, arsenic, and manganese concentrations, since there are only seven monitoring events for total metals to date. Where data was reported below the laboratory PQL, a value of half the laboratory PQL was used to plot the data. As shown on the time-series plots, parameter concentrations for aluminum, ammonia-nitrogen, arsenic, and manganese have remained relatively stable over the monitoring period in most wells.

Michigan groundwater cleanup criteria were exceeded at groundwater monitoring wells for arsenic (0.01 mg/L) in MW-04SG and MW-15SB, ammonia (10 mg/L) in MW-04SB, aluminum (0.05 mg/L) in MW-04SG, MW-06SB MW-08SB, and MW-10SG, and manganese (0.05 mg/L) in MW-02SB, MW-03SBA, MW-04SG, MW-05SG, MW-06SB, MW-07SG, MW-09DB, MW-09SB, MW-10SG, MW-15SB, MW-16SB, and MW-17B. U.S. EPA primary drinking water standards (DWS) are not established for ammonia,

aluminum, cobalt, manganese, or nickel. Secondary U.S. EPA DWS are established for aluminum (0.05 to 0.2 mg/L) and manganese (0.05 mg/L) which are non-enforceable federal guidelines regarding cosmetic and/or aesthetic effects of drinking water.

### 2.3.2 Residential Wells

The analytical results from the current groundwater sampling event indicate that only one annual parameter was reported at or above the PQL for residential well RW-04: total manganese was reported at 0.067 mg/L (original sample) and 0.077 mg/L (duplicate sample). Currently, manganese does not have an established primary DWS, however, the manganese values reported (0.067 mg/L and 0.077 mg/L) slightly exceed the Michigan standard groundwater cleanup criteria of 0.050 mg/L and the U.S. EPA secondary DWS also equal to 0.05 mg/L which as noted above are non-enforceable federal guidelines regarding cosmetic and/or aesthetic effects of drinking water. As previously discussed, access to residential well RW-06 was not available, therefore no sample was collected.

A review of the sampling results for residential well RW-04 indicate that concentrations have remained relatively stable over time, and that the data points for total metals are similar to the previous results for dissolved metals.

Time-series plots, included in Appendix C, were developed for ammonia-nitrogen and manganese in residential monitoring well RW-04. Note that the time-series plots represent both the total and dissolved manganese concentrations since there are only seven monitoring events for total metals. Where data was reported below the laboratory PQL, a value of half the laboratory PQL was used to plot the data. As shown on the time-series plots, concentrations for ammonia-nitrogen and manganese have remained relatively stable in RW-04 over the monitoring period.

### 2.4 Groundwater Flow

On November 11, 2013, static water elevations were obtained from monitoring wells screened in the shallow bedrock unit. Plate 2 is a potentiometric surface map constructed for the shallow bedrock unit beneath the Site. Groundwater was determined to flow to the southwest at a gradient of approximately 0.002 ft/ft. Table 21 includes a summary of groundwater elevation data collected throughout the monitoring period.

### 3.0 LANDFILL INSPECTIONS

Landfill inspections were completed on January 24, 2013 and July 16, 2013 by Michael Charchol, Hull Senior Technician. Weather conditions during the January 24, 2013 inspection were clear with an average temperature of 9° F. Based on this inspection, the landfill cap and surface drainage system are apparently functioning as intended. All of the well pads were covered by snow during this inspection.

Weather conditions during the July 16, 2013 inspection were clear with an average temperature of  $85^{\circ}$  F. Based on this inspection, the landfill cap and surface drainage system are apparently functioning as intended. The monitoring well system is currently in good condition; however most of the well pads were covered by heavy vegetation. A large portion of the fence was also covered by heavy vegetation, making some parts inaccessible. Some of the warning signs at the site are faded although the sign at the entrance is clearly legible.

There were no maintenance activities completed in 2013.

### 4.0 INSTITUTIONAL CONTROLS

An institutional control study was completed by Hull in the spring of 2007 for the Site. The conclusions of the study were provided in an April 2, 2007 letter report to the U.S. EPA (Hull document # ALB037.100.0002.DOC). At U.S. EPA's request, this section has been added to the annual report to provide an update to this study and discuss any changes that may have occurred during the reporting year. No changes were identified for the Site or adjacent properties with respect to institutional controls. Please note that the "Third Five-Year Review Report" was completed by U.S. EPA in August 2012. In the "Third Five-Year Review Report", U.S. EPA identified the following recommendations and follow-up actions:

- 1. Continue to monitor the trend of reduced arsenic levels over the next five years, and
- 2. U.S. EPA will be working with potentially responsible parties (PRPs), Calhoun County, and the Michigan Department of Environmental Quality (MDEQ) to ensure institutional controls in the form of restrictive covenant(s) for property parcel(s) owned by Calhoun County.

The property ownership for parcels 362-036-00 and 362-045-00 is continuing to be evaluated by the Calhoun County Treasurers Office/ Land Bank Authority. At this time, Calhoun County is believed to be the owner of these parcels.

### 5.0 SUMMARY

The information in this report of groundwater quality is provided to comply with conditions stated in the approved O&M Plan developed by SECOR International Incorporated (February 1999); amended by the "Second Five-Year Review Report" for the Site.

All sampling and analysis activities were completed in accordance with the O&M Plan as amended by the "Second Five-Year Review Report" for the Site which required the analysis of total metals as opposed to dissolved metals. This report presents the results of analysis of the annual parameter list. As stated above, none of the annual parameters were reported at or above the laboratory PQL in groundwater with the exception of ammonia-nitrogen, aluminum, arsenic, cobalt, manganese, and nickel. Also, only ammonia-nitrogen and manganese were reported above the PQL in the residential well. Arsenic slightly exceeds the established primary DWS in only two of the nineteen monitoring points and was reported at values similar to prior sampling events. As previously discussed, Michigan groundwater cleanup criteria were exceeded at certain groundwater monitoring wells for arsenic, ammonia, aluminum and manganese, and for residential well RW-04 for manganese. There are no U.S. EPA primary DWS established for ammonia, total aluminum, and total manganese.

**TABLES** 

### TABLE 1

#### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-025B

DADAMETER	LINUTE	10/07/00	01/05/00	04/10/00	07/20/00	10/24/00	10/24/00#	01/25/01	10/24/01	10/20/02	10/00/00	10/21/04	1/11/04	00/27/04	09/27/06#	11/26/07	10/07/00	11/17/00	11/09/10	11/07/11	11/14/12	11/11/12
PARAMETER Quarterly Parameters	UNITS	10/27/99	01/25/00	04/19/00	07/20/00	10/24/00	10/24/00#	U1/25/01	10/24/01	10/29/02	10/09/03	10/21/04	1/11/06	07/2//06	09/2//06#	11/26/07	10/07/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Nitrogen, Ammonia	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	0.141 <sup>B</sup>	0.053	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	<0.003	-	-	-	-11
Arsenic, Total	mg/L	-	-													<0.005	< 0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Annual Parameters	١ ,													40.05								- 1
Aluminum, Dissolved	mg/L	-	-		-	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	< 0.02	<0.01				
Aluminum, Total	mg/L		-	-	•			-		-						0.0972	0.0747	0.0307	0.0131	0.0231	0.054°	<0.050 <sup>8</sup>
Antimony, Dissolved Antimony, Total	mg/L	·		-		<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001 <0.001	< 0.001 < 0.001	<0.001 <0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L mg/L	[	] [		]	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001	< 0.005	<0.005	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\0.001	-0.002	\0.002
Cobalt, Total	mg/L				_	-	-	-	-	-				-		<0.005	< 0.005	<0.005	<0.005	<0.005	0.0016	<0.001
Manganese, Dissolved	mg/L	-	-		-	0.19	0.195		<0.02	0.158	0.047	<0.02	0.195	0.188	0.188	0.215	0.173	0.197	-	-	-	-
Manganese, Total	mg/L	-	-		j -	-		-	-	-	-	-	-	-		0.238	0.24	0.212	0.233	0.236	0.28	0.36
Nickel, Dissolved	mg/L	-	-		-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.007	<0.007	<0.005	< 0.006	<0.0055				
Nickel, Total	mg/L	-	-	-	-	- <5	<5	-	<5	- <5	- <5	- <5	- <5	<1	<1	<0.007 <1	< 0.006 < 1	<0.006 <1	<0.005 <1	<0.005 <1	<0.002 <1	<0.002
Benzene Vinyl Chloride	ug/L ug/L	]	[		]	<1	<1	_	<1	<1	<1	/3 <1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	]	1 :		]	<1	<1		<1	<1	<1	<1	<1	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.029	<0.011
Five Year Parameters	, vg/	·							•		-											
TAL Inorganics	١.																i					
Chloride	mg/L	-		-	-	-	-	-	-	-	-	-	90	-	-	-[	-	64.5	-	-	-	-
Cyanide, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.005	-		-	-	<0.005	-	-	-	-
Nitrate-Nitrite	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	0.0526	-	-	-	-
Sulfate	mg/L	-	-	]	-	-	-	-	-	-	-	-	60	-	-	-	-	60.1 0.0483	-	-	-	-
Barium, Dissolved	mg/L	-	· -		-	1	•	•	-	-	-	-	<0.2 <0.001	-	-	-	-	<0.0002	-	-[		-
Beryllium, Dissolved Cadmium, Dissolved	mg/L mg/L	1 :	[	]	]	[]	<u> </u>					]	<0.001	]	]	]		<0.0002	[	]		]
Calcium, Dissolved	mg/L		] -		-	_		_	_	_	_	_	138	_	_			112	_	_		- 1
Chromium, Dissolved	mg/L	-				-		_	-	-	-		<0.005	-	-	-		<0.001	-	-	-	-
Copper, Dissolved	mg/L	-	-		-	-	-	-	-	-	-	-	<0.025	-	-	-		<0.001	- i	-]		-
Iron, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.71	-	-	-	-	0.546	-	-	-	-
Lead, Dissolved	mg/L	-	j -	-	-	-	-	-	-	-	-	-	<0.003	-	-	-	-	0.000286	-	-	-1	-
Magnesium, Dissolved	mg/L	-	-	-	! -	-	-	-	-	-	-	-	35.1	-	-	-	-	31.7	-	1	-	-
Mercury, Dissolved	mg/L	-	•	-	[ -[	-	-	-	-	-	-	-	<0.0002	-	-	1	-	<0.0002	-	1	-	-
Potassium, Dissolved Selenium, Dissolved	mg/L	-	-	-		1	-	-	- [	-	-	-	<5.005	-1	-	1	1	1.88 <0.002	-	1		1
Silver, Dissolved	mg/L mg/L	1 ]	] [		] ]		[	-					<0.005	]	_	]	]	<0.002		]	]	
Sodium, Dissolved	mg/L				ا۔ ا	_	_	_	_			_	49.7	_	_	-	_	34.1			_	
Thallium, Dissolved	mg/L			_	-	-	-	_			-	_	<0.002		-	-[	<u>-</u>	<0.0002	-	-	-	
Vanadium, Dissolved	mg/L			-	- [	-	-	-	-		-	-	<0.02	-	-	-	-	<0.002	-,	-	-	-
Zinc, Dissolved	mg/L			-	- [	-	-	-		-	-	-	<0.02	-	-	-	-	<0.0045	-	- ا	-	-[
Barium, Total	mg/L	-	-	-	-	-	-	-	-[	-	-	-	-	-	-	-	-1	0.0487	-	-	-	-
Beryllium, Total	mg/L	•	٠ .	-	- <u> </u>	-	-	-	-	-	•	-	-	-	-	-	-	<0.001	-	-	-1	-
Cadmium, Total Calcium, Total	mg/L mg/L		•		]	-	-	-	•	-	•	-	-		-	1	- 1	0.000313	_	-1	-	1
Chromium, Total	mg/L			1 ]	] [	]				- 1			]	]	]	]	1	<0.002		3		]
Copper, Total	mg/L			_	l -l	_	_		_	-		_	_	_	_	_i		<0.005	_ [	_		
Iron, Total	mg/L			-:	-	-	-		_	, .	-	-	-	-	-	-1	-	0.861	_			· -
Lead, Total	mg/L	-	-	-	-	-	-		-:	-	-	-	-	-	-	-	-	<0.001	-	-	-	-
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.7	-	-	-	-1
Mercury, Total	mg/L	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-
Potassium, Total	mg/L	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-1	2.04	-	•	-[	-
Selenium, Total Silver, Total	mg/L	-	-	1	-	-	-	-	-	-	-	•	-	-	-	1	-	<0.005 <0.0005	-	•	-	-
Sodium, Total	mg/L mg/L			]	[]		_		]	[]	- 1		_ [	]		]	]	33	[]	]	]	
Thallium, Total	mg/L	]	]			-]		][	] []	[]	-	.]	1 1		]	.]	]	<0.001	.		]	]
Vanadium, Total	mg/L	-	-	.	.	-	-	-	_	-	-	_[		-	-	ا۔	.	<0.005	.	-	-	_
Zinc, Total	mg/L	-	-					_	-		-	-			-			<0.0055		-	-	
TCL YOCs*	ug/L	-	-	-	-	-	-	-	-	-7	-	-	ND	-	-	-	-]	ND	-	-	-1	
TCL SVOCs*	ug/L	-	-	! -	-	-	-	-	-	-	-	-	ND	-	-	-	-	[	-	-	-	-
2,4-dinitrotolvene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	13.5	-	-	-	-
2,6-dinitrotoluene	ug/L	'	-	'	-	-	-	-	-	-	-	-	ND	-	-	- 1	-	18.4	-	-	-	-
2-chloronaphthalene Di-n-propylnitrosamine	ug/L	-	_	-	-	-	-	-	-	-	-	-	ND ND	-	1	1	-	33.1 16.2		-	-	1
TCL Pesticides*	ug/L	]		]	]	]	]		]				ND	]	]	]		16.2 ND	]			]
TCL PCBs*	ug/L ug/L	]	]		.	.]	_]	]	]	- 1			ND		]	]	]	ND		_]	]	]
Field Parameters	- 3/-																					
pΗ	S.U.	7.41	7.46		7.22	7.58	7.58	7.45	7.33	7.73	7.39	7.29	7.34	7.46	7.46	6.1	6.68	6.78	7.29	6.67	6.64	6.24
Conductivity	umhos/cm	1083	1108		I I	1222	1222	1220	1080	912	862	908	934	985	985	900	943	950	1060	980	899	950
Temperature	°C	10.8	10		11.5	15	15	9.5	11.5	9.2	11.6	10.7	10.8	10.5	10.5	9.6	10.5	9.9	9.3	12.2	9.8	11.1
eH	millivts	-18	-22		-16	31	31	52.8	-21	-	80	-	-	-17	-17	196	136	236	-34	137	172	47
Dissolved Oxygen	mg/L	0	0.59	0.91	1.69	1.37	1.37	1.83	8.5	-	3.38	-	-1	3.36	3.36	2.9	1.86	0.26	2.2	7.89	2.21	0
Turbidity	NTU		- · · · ·	<u>-</u>	-			-					-		-	16	10	ND	1	2		3
Supplemental Parameters Total Dissolved Solids	mc/1	578	619	400	652	686	626	673	411	505	527	470	474	551	536	363	486	631				1
Total Suspended Solids	mg/L mg/L	5/8	019	600	652	000	020	0/3	611	305	54/	4/0	4/4	331	330	303	480	<5	5.5	5.5	<4	
. c.c. corpenaca conta	y/-			<u></u>					<u> </u>												7-4	

NOTES:

<sup>(</sup>TAL) Target Analyte List from Toble 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Toble 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Toble 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested ( # ) Duplicate sample (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 2

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-02SG

DAD ASSESSED.	111176	70/04/00	10/04/01	10/00/00	10/00/00	10/01/04	- 15 5 15 1		11/0//07			** /** /**			
PARAMETER Appual Parameters	UNITS	10/24/00	10/24/01	10/29/02	10/09/03	10/21/04	1/11/06	09/27/06	11/26/07	10/07/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Annual Parameters		-00-	-00-	-0.0-	-0.0	-00-	-0.0=	-00-		ا-ممر		0 00~B	0.000		ر م
Nitrogen, Ammonia Arsenic, Dissolved	mg/L mg/L	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005		< 0.05 < 0.003	<0.05 <0.003	0.207 <sup>8</sup>	0.058	<0.2	<0.2
Arsenic, Total	mg/L	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\0.003	~0.003	\0.003	\0.003	\0.005	~0.003	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05		< 0.02	<0.01	-0.000	-0.000	10.005	- 10.005
Aluminum, Total	mg/L		-		***	_			<0.05	0.119	0.0181	0.034	<0.02	<0.05 <sup>B</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001	0.004	-0.02	-	-
Antimony, Total	mg/L		-		-		-		<0.001	< 0.001	<0.001	<0.001	< 0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	<0.005	-	-	_	-
Cobalt, Total	mg/L	-	-		-	-	-	-	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L	0.038	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	< 0.01	<0.01	-	-	-	-]
Manganese, Total	mg/L						-	-	0.0107	0.024	<0.01	<0.01	<0.01	<0.005	<0.005
Nickel, Dissolved	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	< 0.005	<0.005	-0.005	-0.005	-0.000	٠, ٥,٥
Nickel, Total Benzene	mg/L vg/L	- <5	- <5	< 5	- <5	- <5	- <5	- <1	<0.005 <1	< 0.005 < 1	<0.005 <1	<0.005 <1	<0.005 <1	<0.002 <1	<0.002 <1
Vinyl Chloride	ug/L	<1 <1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.028	<0.011
Five Year Parameters	- 5/ -							7.02							
TAL Inorganics															
Chloride	mg/L	-	-	-	-	-	9	-	-	-	4.1	-	-	-	-
Cyanide, Total	mg/L	-	-	-	-	-	<0.005	- <b> </b>	-	-	<0.005	-	-	-	-
Nitrate-Nitrite	mg/L	-	<b>-</b>	-	-	-	2.2	-	-	-	0.95	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	29	-	-	-	22.5	-	-	-	-
Barium, Dissolved Beryllium, Dissolved	mg/L	-	-	-	-	•	<0.2 <0.001	-	•	-	0.0229 <0.0002	•	-	-[	-[
Cadmium, Dissolved	mg/L mg/L	<u> </u>	<u> </u>	]		-	<0.001	<u> </u>		_[	<0.0002	<u> </u>			]
Calcium, Dissolved	mg/L			]			101				75	]		]	]
Chromium, Dissolved	mg/L	-	-	_	-		<0.005	_	_	-	<0.001	_	-	-	-  -
Copper, Dissolved	mg/L	-	-	-	-	-	<0.025	-1	-	-	<0.001	-,	-	-	-
Iron, Dissolved	mg/L	-	-	-	-	-	<0.1	-	-	-	<0.1	-	-	-	-1
Lead, Dissolved	mg/L	-	-	-	-	-	<0.003	-	-	-	<0.0002	-	-	-	-
Magnesium, Dissolved	mg/L	-	-	-	-	-	23.4	-	-	-	20.2	-	-	-	-
Mercury, Dissolved	mg/L	-	-	-	-	•	<0.0002	-	-	-	<0.0002	-	-1	-	-
Potassium, Dissolved Selenium, Dissolved	mg/L mg/L		_	_		•	26.5 <0.005	-		-	24.2 <0.002			-1	-
Silver, Dissolved	mg/L		]			-	<0.005	_		_	<0.002		]		
Sodium, Dissolved	mg/L	-	_		-	_	7.3	_	_	_	5.81	_			_
Thallium, Dissolved	mg/L	-	-	-	-	-	<0.002	-	_	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	-	-	-	<0.02	-	-	-	<0.002	-	-	-	-
Zinc, Dissolved	mg/L	-	-	-	-	-	<0.02	-	-	-	<0.004	-	-	-	-
Barium, Total	mg/L	-	-	-	-	-	-	-	-	-	0.025	-	-	-[	-
Beryllium, Total	mg/L	-	-	-	-	•	•	-	-	-	<0.001	-	-	-	-
Cadmium, Total Calcium, Total	mg/L mg/L		-	-	-	-	-	-	-	-	<0.0002 79.9	-	-	-	1
Chromium, Total	mg/L			]	]	_	]	_]	_	]	<0.002		]	]	1
Copper, Total	mg/L	_	-	_	_	_	_	_	_	-	< 0.005		_	_[	_
Iron, Total	mg/L	-	-		-	-	_	-	-	-	<0.1	-		-1	-
Lead, Total	mg/L	-	-	-		-	-	-	-	-	<0.001	-	-	-	-
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	21	-	-	-	-
Mercury, Total	mg/L	-	•	-	-	-	-	-	-	-	<0.0002	-1	-	-1	-
Potassium, Total	mg/L	i -	-	-	-	-	-	-	-	-	26.4	-	-	-	- 1
Selenium, Total Silver, Total	mg/L mg/L	-	-	-	-	-	-	•	-	-	<0.005 <0.0005	-1	-	-	-
Sodium, Total	mg/L			]	]		_	]		]	6.23	]		1	1
Thallium, Total	mg/L	-			.]	_	_	.]			<0.001		_	-	]
Vanadium, Total	mg/L	-	-	-		-	_			-	<0.005	_		.]	
Zinc, Total	mg/L	-									<0.004				_
TCL VOCs*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-		-
TCL SVOCs*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-]	-	-	-
TCL Pesticides*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCL PCBs*	υg/L					-	ND		-	-	ND				
Field Parameters		7.59	7 27	7.40	~ = ^	7.0	ا مر	ا, ہ	, , ,		, , ,	, 50		, ,	700
pH Conductivity	S.U. umhos/cm	7.59 641	7.37 552	7.42 554	7.53 574	7.29 598	7.33 621	7.56 665	6.04 906	6.39 648	6.23 620	6.58 610	6.22 637	6.37 648	7.02 605
Temperature	°C °C	15.2	11.1	10	11.1	10.4	10.1	10.3	9.5	10.2	9.8	9.5	11.1	10.5	10.7
eH	millivts	-32	105	10	80	10.4	10.1	10.3	236	231	282	154	167	185	189
Dissolved Oxygen	mg/L	1.41	6.26		3.66	.]	_]	2.11	7.15	279	4.16	11.8	7.6	6.76	6.28
Turbidity	NTU			أ		-	_		11	13	1	2	1	1	2
Supplemental Parameters															
Total Dissolved Solids	mg/L	413	337	273	356	350	303	726	629	364	478	-	-	-	-
Total Suspended Solids	mg/L	-			<u></u>			<u> </u>		<u> </u>	<5	7.5	<5	<4	<4

- (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

- Only those parameters reported at or above the laboratory practical quantitation limit are listed.

  (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested
- (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 3

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-03SBA

PARAMETER	UNITS	10/25/00	10/24/01	10/29/02	10/09/03	10/21/04	1/10/06	09/27/06	11/26/07	10/07/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Annual Parameters	0.00	10/20/00	19/2-1/01	10/25/02	10/07/03	10/21/04	1/10/00	07/27/00	11/20/07	10/07/00	11/17/07	11/05/10	11/0//11	11/14/12	11/11/13
Nitrogen, Ammonia	mg/L	7.31	0.21	<0.05	<0.05	<0.05	<0.05	2.39	0.559	0.269	0.199	0.575 <sup>8</sup>	0.425	0.24	0.25
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	< 0.003	<0.003		-	-	-
Arsenic, Total	mg/L	-!	í -l	-	-	-	-	•	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01		-	-	-
Aluminum, Total	mg/L	-!	( -	-	-	-	-[	-	0.056	0.0307	0.029	0.037	0.0339	0.19 <sup>8</sup>	<0.05 <sup>B</sup>
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001	-	-	-	-
Antimony, Total	mg/L							-	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	<0.005	40.00	40.005		
Cobalt, Total Manganese, Dissolved	mg/L mg/L	0.162	<0.02	0.069	<0.02	<0.02	<0.02	0.106	<0.005 0.074	< 0.005 0.0633	<0.00 <i>5</i> 0.069	<0.005	<0.005	<0.001	<0.001
Manganese, Total	mg/L	0.102	\( \cdot 0.02	0.007	V0.02	<b>\0.02</b>	\0.02	0.100	0.0823	0.0654	0.009	0.067	0.0694	0.07	0.074
Nickel, Dissolved	mg/L	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.007	<0.008	< 0.005	<0.0055	0.007	0.0074	0.07	0.074
Nickel, Total	mg/L	_				-	-	-	<0.007	< 0.005	<0.006	<0.005	<0.006	<0.002	<0.002
Benzene	ug/L	<5	<5	<5	<5	<5	<5	<1	<1	< 1	<1	<1	<1	<1	<1
Vinyl Chloride	υg/L	<1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	υg/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.029	<0.011
Five Year Parameters		i l	i l												
TAL Inorganics		1	i İ												
Chloride Cyanide, Total	mg/L	-	<sub> </sub> -	-	-	-	78 <0.005	-	-	•	73.4	-	-	-	-
Nitrate-Nitrite	mg/L mg/L		1		-	•	<0.003 0.17	-	-	•	<0.005 0.0243	-	-	•	-[
Sulfate	mg/L		<u> </u>	]		_	68	_	]	_	69.8		_		
Barium, Dissolved	mg/L	.	ı .l		-	-	<0.2	-	_]		0.0952		]	]	]
Beryllium, Dissolved	mg/L	-	ı -l	-	-	-	<0.001	-	-	-	<0.0002	_		_	_
Cadmium, Dissolved	mg/L	-	ı -l	-	-	-	0.00061	-	-	-	<0.0002	-	-	-	-
Calcium, Dissolved	mg/L	-	i -	-	-	-	133	-	-	-	114	-	-	-	-
Chromium, Dissolved	mg/L	-	ı -l	-	-	-	<0.005	-	-	-	<0.001	-	-	-	-1
Copper, Dissolved	mg/L	[ -]	, -J	-	-	-	<0.025	-	-	-	<0.001	-	-	-	-1
Iron, Dissolved Lead, Dissolved	mg/L	-1	1	-	-	-	<0.1	•	-	•	0.762	-	•	-	-
Magnesium, Dissolved	mg/L mg/L	]	. ]	_[		-	<0.003 36.7	•	1		<0.0002 31.3	•	•	-	-
Mercury, Dissolved	mg/L	1 -1				-	<0.0002			]	<0.0002	]			]
Potassium, Dissolved	mg/L		i -1	_	_	_	13.5	_		_	1.43	_	_		]
Selenium, Dissolved	mg/L		i -I	-	-	-	< 0.005	-		-	<0.002	_			-li
Silver, Dissolved	` mg/L	-	l	-	-	-	<0.0005	-	-	-	<0.0001	-	-	-	-[
Sodium, Dissolved	mg/L		ı -l	-	-	-	49.6	-	-	-	34	-	-	-	-[]
Thallium, Dissolved	mg/L	-	i <b>-</b>	-	-	-	<0.002	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	i -l	I	-	-	-	<0.02	-	-	-	<0.002		-	-	-
Zinc, Dissolved Barium, Total	mg/L mg/L	í <sup>-</sup> l	1	-	-	•	0.022	-	-	-	<0.0045	-	-	•	-11
Beryllium, Total	mg/L	]		]	_	_				-	0.0956 <0.001		-	-	-1
Cadmium, Total	mg/L	1 -1							_	-	<0.0002	]	]	]	][
Calcium, Total	mg/L			-	_		_	_	_		123	_		]	]
Chromium, Total	mg/L	l -l	<b>i</b>	-]	-	-	-	-1	-	-	<0.002	-	_		-
Copper, Total	mg/L		I	-	-	-	-	-	-	-	<0.005	-	-	-	-
Iron, Total	mg/L	-1		-	-	-	-	-	-	-	0.928	-	-	-	-
Lead, Total	mg/L	-		-1	-	-	-	-	-	-	<0.001	-	-	-	-11
Magnesium, Total	mg/L	-[	-	-	-	-	-	-	-	-	32.6	-	-	-	-
Mercury, Total Potassium, Total	mg/L mg/L	-	1	- 1	-	-	-	-	-	-	<0.0002 1.58	-	-	-	-
Selenium, Total	mg/L			]	]			_		]	<0.005	_		-	1
Silver, Total	mg/L		_	.]	.]	]		-	.]		<0.0005	]	.]	]	
Sodium, Total	mg/L	-	-	-	-	_	-[	-	-[	-	33.4	_			.]
Thallium, Total	mg/L		-	-	-	-	-	-	-	-	<0.001	-	-	-	
Vanadium, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.005	-1	-	-	-
Zinc, Total	mg/L	-					-	-	-	-	<0.0065	-			<b>.</b>
TCL YOCs*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCL SVOCs* TCL Pesticides*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-[	-[	-
TCL PCBs*	ug/L ug/L		_]		]	-	ND ND	-	-	-	ND ND	-	-	-	-
Field Parameters	- US/ E	<del>-</del>	<del></del>				שא			—— <del>-</del>	שא	-	<del>-</del>		
pH	s.u.	7.22	7.16	7.61	7.3	7.59	7.16	7.39	6.8	6.99	7.1	7.27	6.7	6.69	6.48
Conductivity	umhos/cm	1338	1180	975	1097	1066	1087	1081	900	1030	976	940	982	976	879
Temperature	°c′	14.5	12.9	10.5	13	11.5	10.8	11.2	10.2	11.5	10.8	10.6	11.6	9.1	11
еН	millivts	<u>-</u>	-69	-	14	-	-	-84	-54.0	-64	18	-59	-15	38	20
Dissolved Oxygen	mg/L	- I	7.08	-	0.71	-	-	2	5.8	1.33	0.61	1.48	1.18	1.3	0
Turbidity	NTU								43	12	1	1	1	4	9
Supplemental Parameters		[										į			ŀ
Total Dissolved Solids	mg/L	776	464	550	435	572	456	1170	623	503	641	-			<u>-</u>
Total Suspended Solids	mg/L		<u>-</u>							<i>-</i>	<5	9	11	13	16

- (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

- Only those parameters reported at or above the laboratory practical quantitation limit are listed.
- (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested
- (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 4

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-04SB

PARAMETER	UNITS	10/28/00	01/25/00	04/19/00	07/20/00	7/20/00#	10/24/00	01/25/01	10/24/01	10/29/02	10/09/03	10/21/04	1/10/06	00/20/04	11/26/07	10/07/00	11/17/09	11/09/10	11/07/11	11/14/10	12/11/12
Quarterly Parameters	UNITS	10/28/99	01/25/00	04/19/00	07/20/00	7/20/00#	10/24/00	01/23/01	10/24/01	10/29/02	10/09/03	10/21/04	1/10/06	09/28/06	11/26/07	10/07/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Nitrogen, Ammonia	mg/L	29	26.7	33.6	31.6	30.6	28.5	28.8	21.2	22	21.6	21.9	19.1	18.8	20.9	16.7	15	148		, ,	, ,
Arsenic, Dissolved	mg/L	0.023	0.03		0.0319	0.0318	0.0307	0.0292	0.0108		0.0091	0.0081	0.0081	0.0118	0.0127	< 0.003	<0.004	14	16.8	12	13
Arsenic, Total	mg/L	0.025	0.05	0.0557	0.0317	0.0316	0.0307	0.0272	0.0108	0.0254	0.0071	0.0081	0.0081	0.0118	0.0127	0.00393	0.00327	<0.005	<0.005	<0.005	0.006
Annual Parameters	<del>  ""9/ -</del>				_				-	<del>-</del>					0.0141	0.00373	0.00327	_<0.003	~0.003	~0.003	0.008
Aluminum, Dissolved	mg/L	-	_	_	l -		<0.1		0.11	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.02		_		
Aluminum, Total	mg/L	_	_	_	_		_	_	_						0.123	0.0762	0.0409	0.0261	0.0215	<0.05 <sup>8</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved	mg/L		]	_			<0.005	]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00108	<0.001	0.0201	0.0213	<b>~0.03</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Antimony, Total	mg/L	]	]	_	1 .		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	]	<0.003	<0.005	\0.003	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\0.005	\Q.001	<0.001	0.00108	0.00101	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	1 .	_	_	[	]	<0.01	]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.001	< 0.005	<0.005	\0.001	~0.001	\0.002	\0.002
Cobalt, Total	mg/L				۔ ا		-	_	10.01	10.01	10.01	10.01	40.01	10.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L					_	0.122	_	0.05	<0.02	<0.02	<0.02	0.028	0.0797	0.0663	< 0.01	<0.01	10.000	10.005	10.001	10.001
Manganese, Total	mg/L		_	_		_	•	_	-	".			0.020		0.057	< 0.01	<0.01	<0.01	<0.01	0.0088	0.041
Nickel, Dissolved	mg/L		-	-	-		< 0.05		<0.05	<0.05	<0.05	<0.05	< 0.05	<0.007	<0.007	< 0.005	<0.005				
Nickel, Total	mg/L	_	-	-											<0.006	< 0.005	<0.005	<0.005	<0.005	0.0036	0.0038
Benzene	ug/L		-	-	_	-	<5	_	<5	<5	<5	<5	<5.	<1	<1	< 1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L			-	] -	-	<1		<1	<1	<1	<1	<1	1.02	1.25	< 1	<1	<1	<1	<11	<1
1,2-Dibromo-3-Chloropropane	ug/L	-	-	-	-	_	<1	-	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.029	< 0.011
Five Year Parameters																					
TAL Inorganics		]																			
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-1	-	82	-	-	-	65.5	-	-		-∦
Cyanide, Total	mg/L	-	` -	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	<0.005	-	-	.	-
Nitrate-Nitrite	mg/L	-	-	-	-	•	-	-	-	-	-	-	0.05	-	-	-	0.0819	-	-	-	-]
Sulfate	mg/L	-	-	-	-	-	•	-	-	-	-	-	46	-	-	-	33.7	-	-	-	-
Barium, Dissolved	mg/L	-	-	-	-	•	-	-	-	•	-	-	<0.2	•	-	-	0.0727	-	-	-	
Beryllium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.001	-[	-1	-	<0.0004	-	-1	-	-
Cadmium, Dissolved	mg/L	-	-[	-	-	-	-	-	-	-		-	<0.0005	-	-	-	<0.0004	-	-	-	-
Calcium, Dissolved	mg/L	-	-	-	-	<u>-</u> i	-	-	-	-	· -	-	54.6	-	-1	-	<5	-	-1	-	-
Chromium, Dissolved	mg/L	-	-	-1	-	-	-	-	-	-	-	-	<0.005	-	-1	-1	0.00615	-1	-1	-	-
Copper, Dissolved Iron, Dissolved	mg/L	1 1	-	-	-	-	-	-	-	-	- [	-	<0.025		- 1	-	<0.006	-]	-1	-	-1
Lead, Dissolved	mg/L	l -i	-	-	_	-		-	•	-	-	-	<0.1	-	-1	-	<0.5	-	-	-	1
Magnesium, Dissolved	mg/L	] [	-	-	_	-	-	-	-	-	-	-	<0.003	-	-1	-1	<0.0004	-	-	-	1
Mercury, Dissolved	mg/L mg/L		_	_	_		-	-	-	-	-	-	39.5 <0.0002	-	-	-1	<5 <0.0002	-	-	-	1
Potassium, Dissolved	mg/L	] [	_	_	]	]		]	-	_			146	]	]	-1	762	7	-1	-	-1
Selenium, Dissolved	mg/L	] [		_		]	_	]	_		]	]	<0.005	]	]		<0.007	-1	]	1	1
Silver, Dissolved	mg/L	]					_	]	_			]	<0.005		]	-1	<0.0002	٦	-1	1	٦
Sodium, Dissolved	mg/L			_		_	_	]	_	_	_	]	126		]	- 1	342	]	]	- 1	1
Thallium, Dissolved	mg/L	].	_	-	_	_	_	_	_		_	_	<0.002	3	]		<0.0004			]	][
Vanadium, Dissolved	mg/L	ا۔ ا	_	-	-	_	_	_	_	_	_		<0.02	_	_		<0.004	]	]	]	][
Zinc, Dissolved	mg/L	-	_	_	-	_	_	_	-	_	-	-	<0.02	_ [	_	_	<0.008		_[	.]	]
Barium, Total	mg/L	-	-1	-	-	-	-	_	-	-	-	.	-	_	_	-	0.115	-	-	ا۔	.]
Beryllium, Total	mg/L	-	-	-	-	-	-	-	-	-	-1	-	-	-	-	-i	<0.001	-	-	-	.
Cadmium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0004	-	-	-1	-1
Calcium, Total	mg/L	· -	-	-	-	-	-:	-	-	-	-	-	-	-	-1	-	6.23	-	-	-1	
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00518	-	-	-	-
Copper, Total	mg/L	] -	-	-	-	-	-	-	-		-	-	-	-	-	-1	<0.005	-	-	-	-
iron, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-[	<0.4	-	-	-1	-11
Lead, Total	mg/L	-[	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	<0.001	-	-[	-	-
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	-]	-	-	-1	-	-	4.52	-	-	-	-
Mercury, Total	mg/L	'	•	-	-	-	•	-	-	-	-	-[	-	-	-	-	<0.0002	-	-	-	-]
Potassium, Total	mg/L		-	•		-	•	-	•	-	•	•	-	-	-	-	682	-	-	-1	1
Silver, Total	mg/L mg/L			•	[	_		-	•	-	-	-	-	-	-	1	<0.005 <0.0005	1	1	-	1
Sodium, Total	mg/L		]					-	-	•	•	•	-	-	-]	-	<0.0005 322	1	-	1	-
Thallium, Total	mg/L	]	]	]				<u> </u>			]	]	]	]	[]	]	<0.001	_	]	]	]
Vanadium, Total	mg/L							_	]	]	]	]	]	]			<0.001	_]	]	]	1
Zinc, Total	mg/L		.			_				_[	_[			.]	.]	]	<0.009	.]	]	]	]
TCL VOCs*	, , , , , , , , , , , , , , , , , , ,																3,007	$\dashv$	—— <del>-</del>		<del></del>
1,2-dichloroethane	ug/L			-		_		_		_	_]	_	ND	.1	.	.	1.39	.	_		.
Acetone	ug/L		.	-		-			-	_	.	_	26.4	.		-	114	.	.		-1
TCL SVOCs*	ug/L		.	- 1		-	.	-	-	-	_[	-	ND	.		_	ND	.[			-
TCL Pesticides*	ug/L	-	-	-	-	-	-	-		-	.]	-	ND	-	-	-	ND	.	-		.
TCL PCBs*	ug/L							-			-		ND				ND				
Field Parameters			1																		
pΗ	S.U.	7.14	7.29	7.23	<i>7</i> .01	<b>7.</b> 01	7.05	7.08	7.9	11.79	7.53	7.69	10.67	10.4	8.15	11.98	12	12.7	12.6	12.42	12.83
Conductivity	umhos/cm	1366	1383	1424	1458	1458	1457	1470	1370	2090	1300	1271	1290	1871	1030	4380	7150	6400	7120	6600	5880
Temperature	°C	11.8	10.5	12.2	12.5	12.5	17.5	10.1	13.4	10.5	12.8	11.5	10.6	11.6	10.4	11.7	10.8	11	11.7	10.9	10.5
eH	millivts	-5	-12	-15	-3	-3	17	-63.2	-99	-	42	-	-	-116	-110	-82	-43	-128	-101	-136	-102
Dissolved Oxygen	mg/L	0.87	0.8	1.3	1.18	1.18	1.98	1.24	3.32	•	2.56	-	-	2.33	5.24	2.92	8.63	13.1	6.61	5.62	6.17
Turbidity	NTU	-	-		-	<b>-</b> _	-	·							45	112	1	64	12	22	15
Supplemental Parameters	.					[			[			]									[]
Total Dissolved Solids	mg/L	652	673	644	740	702	684	702	714	912	772	648	636	598	315	1560	2280	-	-	-	-
Total Suspended Solids	mg/L	L <u>. 1</u>	<u>-</u> -l			<u>1</u>				-1			-1	-			11.5	10	<5	13	69
NOTES:																					

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested

<sup>(#)</sup> Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-04SG

PARAMETER	UNITS	10/24/00	10/24/01	10/29/02	10/09/03	10/21/04	1/10/06	09/27/06	11/26/07	10/07/08	08/27/09	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Annual Parameters	5.4113	10,24,00	10/27/01	10,23,02	.5/5/65	10/21/04	1,13,00	37/27/00	11/20/0/	.0,07,08	VU  27   U7	,.,,,,,,	11,30,10	11,07,11	11/17/12	,,.3
Nitrogen, Ammonia	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.124	<0.05	< 0.05	_	<0.05	0.139 <sup>8</sup>	0.091	<0.2	0.28
Arsenic, Dissolved	mg/L	0.0222	0.007	0.0123	0.0092	0.0057	0.0096	0.0101	0.00631	0.00829	0.0096	0.00613		-		
Arsenic, Total	mg/L	-		-		-	-	-	0.167	0.167	0.022	0.0258	0.0173	0.0746	0.14	0.024
Aluminum, Dissolved	mg/L	1.9	<0.1	<0.1	0.26	<0.1	<0.1	<0.05	<0.05	< 0.02	0.026	<0.01	-	-		-
Aluminum, Total	mg/L		-						7.74	4.42	0.561	0.517	0.108	1.54	3.1 <sup>8</sup>	0.21
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005 0.0011	< 0.001 < 0.001	< 0.001 < 0.001	<0.001 <0.001	- <0.001	<0.001	<0.002	- -0.000
Antimony, Total Cobalt, Dissolved	mg/L mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.001	< 0.001	< 0.001	<0.005	\0.001	<0.001	\0.002	<0.002
Cobait, Total	mg/L		-		- 10.01	-		-	0.00931	0.00701	< 0.005	<0.005	<0.005	<0.005	0.0037	<0.001
Manganese, Dissolved	mg/L	0.43	0.376	0.304	0.338	0.345	0.288	0.236	0.195	0.266	0.168	0.133		-	-	-
Manganese, Total	mg/L	ı -l	-	-	-	-	-	-	0.333	0.488	0.185	0.198	0.473	0.244	0.26	0.22
Nickel, Dissolved	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	0.00609	< 0.005	< 0.005	<0.005				
Nickel, Total Benzene	mg/L ug/L	<5	- <5	- <5	- <5	- <5	<5.	- <1	0.0219 <1	0.0137	< 0.005	<0.006 <1	<0.00 <i>5</i> <1	<0.006 <1	0.0076 <1	<0.002 <1
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	< 1		<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	-	<0.02	<0.02	<0.02	<0.029	< 0.011
Five Year Parameters		i l														
TAL Inorganics	,	i l					_									
Chloride Cyanida Total	mg/L	-	-	-	-	-	<5 <0.005	-	-	•	-	10.8	-	-	-	-
Cyanide, Total Nitrate-Nitrite	mg/L mg/L	1 1	<u> </u>			:	<0.005 <0.02	1	· .			<0.005 <0.02		<u> </u>	]	-
Sulfate	mg/L	]		_]	_	]	58		_		]	45.9				_
Barium, Dissolved	mg/L		-	-	-	-	<0.2	-	-	-	-	0.0234	-	-,	-	-
Beryllium, Dissolved	mg/L	, -l	-	-	-	-	<0.001	-	-	-	-	<0.0002	-	-	-	-
Cadmium, Dissolved	mg/L	, -l	-	-	-	-	<0.0005	-	-	-	-	<0.0002	-	-	-	-]
Calcium, Dissolved Chromium, Dissolved	mg/L	, 1	-	-	-	-	105	-	•	-	-	75.1 <0.001	-	-	-	-
Copper, Dissolved	mg/L mg/L		]	_		]	<0.005 <0.025		-		-	<0.001	_	-	_	_
Iron, Dissolved	mg/L	ı -l		-	-		2.22	_		_		0.714				
Lead, Dissolved	mg/L	!	-	-	-		<0.003	- 1			-	<0.0002	-	-	-	-
Magnesium, Dissolved	mg/L	ı -l	-	-	-	-	26.2	-	-	-	-	19.8	-	-	-	-
Mercury, Dissolved	mg/L	ı -l	-	-	-	-	<0.0002	-	-	-	-	<0.0002	-	-		-
Potassium, Dissolved Selenium, Dissolved	mg/L mg/L	i [		_	-	-	<5 <0.005	-	-		-	<1 <0.002	•	•	-	-
Silver, Dissolved	mg/L		_	_]			<0.005		_	_	_]	<0.002				_
Sodium, Dissolved	mg/L	ı -l		-	-	-	3.3	-	-	-	-	<5	-	-	-	-1
Thallium, Dissolved	mg/L	1	-	-	-	-	<0.002	-	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	. ·I	-	-	-1	-	<0.02	-	-	-	-	<0.002	-	-	-	-
Zinc, Dissolved Barium, Total	mg/L	-1	-	-	-	-	<0.02	-	-	-	-	<0.0045 0.0295	-	•	-	-1
Beryllium, Total	mg/L mg/L		]	]		_				-		<0.0293	_	_		]
Cadmium, Total	mg/L	l	-	-	-	-	_	-	-	_	-	<0.0002	-	_	_	-
Calcium, Total	mg/L	- J	-	-	-	-	-	-	-	-	-	76.7	-	-	_	-
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-
Copper, Total	mg/L	· -[	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-
iron, Total Lead, Total	mg/L mg/L	<u> </u>			-	1	-[	1	_	-		2.06 0.003	-	-	-	1
Magnesium, Total	mg/L	. ]		]	-]	]		]	]	]	]	19.7	_			]
Mercury, Total	mg/L	1	-	-	-	-	-	-		.		<0.0002	-			
Potassium, Total	mg/L	, -l	-	-	-	-	-	-	-	- <b> </b>	-	<1	-	-	-	-
Selenium, Total	mg/L	, - <b> </b>	-	-	-	-	-	-	-	-	-	<0.005	-	-[	-	-
Silver, Total Sodium, Total	mg/L	, · ·	-	-	-	-	-	-	-	-	-	<0.0005	-	-[	-	-
Thallium, Total	mg/L mg/L	. ]				_	_	-		]		<5. <0.001	<u> </u>	<u>.</u>		_
Vanadium, Total	mg/L	]	[]	.[		.]	]	-,	].			<0.001		]	]	]
Zinc, Total	mg/L											0.00588				
TCL VOCs*	ug/L	, <del>-</del>	-	-	-	-	ND	-		-	-	ND		-	-	-
TCL SVOCs*	ug/L	, - <u> </u>	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L ug/L	, -	-	-	-	-	ND ND	-	-	-	-	ND ND	-	-	-	-
Field Parameters	Ug/L	<del>- 1</del>				-	שא					NU	•		-	
pH	s.v.	7.16	7.5	8.34	8.35	7.94	7.25	7.86	7.85	6.91	6.34	7.15	6.26	6.63	6.23	6.14
Conductivity	umhos/cm	637	604	605	639	590	573	549	680	505	644	528	516	522	462	394
Temperature	°c	16.1	13.3	10.5	12.1	11.5	11.3	10.5	10	11.6	11.3	10.9	11.3	12.2	9.8	11.6
eH	millivts		-71	-	35	-	-	-84	-46	-47	-37	58	53	12	4	68
Dissolved Oxygen	mg/L	. 1	8.3	-	2.59	-	-	1.9	4.31	1.15	11.6	3.5	1.68	1.21	1.45	٥
Turbidity Supplemental Parameters	NTU	<del>-</del>					-	-	116	112	49	84	36	195	127	57
Total Dissolved Solids	mg/L	448	395	344	421	332	240	246	451	262	304	422	_	_	_	_
Total Suspended Solids	mg/L										30	13.5	6	57.5	59	<4

NOTES:

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested ( # ) Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 6

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-05SB

PARAMETER	UNITS	10/27/99	01/25/00	01/25/00#	04/19/00	04/19/00	07/20/00	10/24/00	01/25/01	10/24/01	10/24/01#	10/30/02	10/09/03	10/21/04	1/10/06	09/28/06	11/26/07	10/09/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Quarterly Parameters	Ollis	10/2//77	01/23/00	01/23/00#	04/17/00	04/19/00	07/20/00	10/24/00	01/23/01	10/24/01	10/24/01#	10/30/02	10/07/03	10/21/04	1/10/00	07/20/00	11/20/07	10/05/08	11/17/07	11/08/10	11/0//11	11/14/12	11/11/13
Nitrogen, Ammonia	mg/L	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	0.079	0.146 <sup>8</sup>	0.089	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00316	<0.003				
Arsenic, Total Annual Parameters	mg/L	<del> </del> -	<del>-</del>						•		-	<del>-</del>		-			<0.005	< 0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Aluminum, Dissolved	mg/L	-	-	-	-	-	-	<0.1	_	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01	-	_	-	-
Aluminum, Total	mg/L	-	-	-	-	-	-		-	-	-	-	-	-		-	0.365	< 0.02	<0.01	<0.01	<0.02	<0.05 <sup>8</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved	mg/L	-		-	-	-	-	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001	-	-]	-	-
Antimony, Total	mg/L	-	-	-	-	-	-	٠, ٥, ٥	-	-	-	-001	-0.01	-0.01	-0.01		<0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved Cobalt, Total	mg/L mg/L	_	-	-	-		]	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005 <0.005	< 0.005 < 0.005	<0.005 <0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L	-	-	-	-	-	-	0.079	-	0.082	0.047	<0.02	<0.02	<0.02	0.082	0.0737	0.0764	0.0759	0.074	-	-		
Manganese, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0913	0.0739	0.0717	0.0367	0.0813	0.082	<0.005
Nickel, Dissolved	mg/L	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	< 0.005	<0.005	<0.005	-0.005	<0.000	-
Nickel, Total Benzene	mg/L ug/L				]			<5	-	- <5	- <5	- <5	- <5	- <5	- <5	- <1	<0.00 <i>5</i> <1	< 0.005 < 1	<0.00 <i>5</i> <1	<0.00 <i>5</i> <1	<0.00 <i>5</i> <1	<0.002 <1	<0.002 <1
Vinyl Chloride	ug/L		-	-]	-			<1		<1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	-	-	-	-	-	-	<1		<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.03	< 0.011
Five Year Parameters																							
TAL Inorganics Chloride	mg/L				_		_								52				73.6		ļ		
Cyanide, Total	mg/L		_	]	]	]	]	]	-	]	-	]	.]	]	< 0.005	]	]		<0.005		.]	]	
Nitrate-Nitrite	mg/L	-	-	-	-	-	-	-	-		-	-	-	-	<0.02	-	-	-	0.0213	-	-	-	
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	60.8	-	-	-	-
Barium, Dissolved Beryllium, Dissolved	mg/L mg/L	-	-	-	-	-	-		-	-	-	-	-	-	<0.2 <0.001	-	-	-	0.119 <0.0002	-	-1	•	-
Cadmium, Dissolved	mg/L mg/L		_	]	]	]	[]	_]	-	]	-	]	.1	]	<0.001	]	.1		0.000288		.]	]	_
Calcium, Dissolved	mg/L	-	_	-	-	-	-	-	-	-	-	-	-	-	126	-	-	_	108	_	-	-	_
Chromium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	<0.001	-	-	-	-
Copper, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-[	<0.025	-	-	-	<0.001	-	-	-	-
Iron, Dissolved Lead, Dissolved	mg/L mg/L		-		]		]		]		-	1		-	0.97 <0.003	]	- 1	_	0.738 <0.0002	_		-	_
Magnesium, Dissolved	mg/L	1 -	_	-	_	-		-				_	-[	-	35.3		-]	_	32.4	-	.]	_	]
Mercury, Dissolved	mg/L		-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-[	-	<0.0002	-	-	-	-
Potassium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	2.04	-	-	-	-
Selenium, Dissolved Silver, Dissolved	mg/L mg/L	-	-	-	-	-		-	-	-	-	-	-	-1	<0.005 <0.0005	-	-	-	<0.002 <0.0001	-	-	-	-
Sodium, Dissolved	mg/L		-	-	_	-	]	.]	-	-	_	]	]	_	26.5		_]	]	29.9	-			1
Thallium, Dissolved	mg/L	1	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-[	<0.002	-	-	-	-
Zinc, Dissolved Barium, Total	mg/L mg/L		-	-	-	-		-	-	-	-	-	-	-	<0.02	-	- 1	-	<0.007 <i>5</i> 0.117	•	-	-	-
Beryllium, Total	mg/L		-		_	_	.]	]	]	_		_[	.]	_			]	.]	<0.001	]		-	]]
Cadmium, Total	mg/L		-	-	-	_	-	-	-	-	-	-	-i	-	-	-	-	-	0.00183	-	-1	· -	- <b>i</b>
Calcium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	115	-	-	-	-
Chromium, Total Copper, Total	mg/L mg/L	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	1	-	-	<0.002 <0.005	-	-	-	1
Iron, Total	mg/L	] [	-	]	_	_		]		-		_	_]	_	-		]	]	0.788	-]	]		
Lead, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-]	-	-	-	<0.001	-	-	-	-
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	-	-
Mercury, Total Potassium, Total	mg/L mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-]	<0.0002 3.59	-	-	-]	-
Selenium, Total	mg/L mg/L	]		]	-	-	[]		-	-		]	_]	-	.]		]	.]	<0.005	[]	]	_[	
Silver, Total	mg/L	-	-	-	-	-	-	-1	-	-	-	-	-i	-	-	-	-	-	<0.0005	-			-1
Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.3	-	-	-	-
Thallium, Total Vanadium, Total	mg/L mg/L	1	-	1	-	-	-		-	-	-	-	-	-	-	-	-	1	<0.001 <0.005	-	-	-	-
Zinc, Total	mg/L	-	]			-	]	]	-	]	<u> </u>	]	]	.]	]	]	- 1	[]	<0.005	-	]	-	]
TCL VOCs*	ug/L		-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-		ND		-	-	
TCL SVOCs*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	´-	-	ND	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L ug/L	-	-	-	-	-	-	-	-	-	-	-	-[	-	ND ND	-	-	-	ND ND	-	-	-	-
Field Parameters	Ug/L							-			-	-			שא	-			אט				
рH	s.u.	7.45	7.51	7.51	7.45	7.45	7.22	7.44	6.57	7.26	7.26	7.7	7.3	7.52	7.35	7.52	6.47	6.73	7.48	7.8	7.21	7.41	9.62
Conductivity	umhos/cm	725	738	738	754	754	766	817	1210	683	683	683	784	663	810	838	1010	846	895	869	951	1070	879
Temperature eH	°C milliste	10.7	9.6	9.6	10.9	10.9	11.7	15	9.5	12.7	12.7	11.7	11.4	10.8	10.4	10.2	9.9	11.2	10.5	12.8	12.1	10.5	10
Dissolved Oxygen	millivts mg/L	-19 0.67	-27 0.48	-27 0.48	-27 1.27	-27 1.27	-16 1.8	37 1.47	38.6 2.19	-65 4.5	-65 4.5		68 1.28			-74 4.84	-29 2.42	-26 1.03	45 1.22	-30 2.8	-82 1.05	-100	12 6.41
Turbidity	NTU								2,/						]		109	7	32	11	1.03	او	4
Supplemental Parameters													j										
Total Dissolved Solids	mg/L	421	449	439	410	410	476	452	468	432	422	425	427	415	448	420	663	527	508			-	-
Total Suspended Solids	mg/L	<u> </u>	1	-					<u> </u>			<u> </u>	-	<u> </u>		-1			<5	<5	<5	<4	<4

NOTES:

{TAL} Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

{TCL} Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

{\*} All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested

<sup>(#)</sup> Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or

above the laboratory practical quantitation limit.

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-055G

PARAMETER	UNITS	10/24/00	10/24/01	10/24/01#	10/30/02	10/09/03	10/21/04	1/10/06	09/28/06	11/26/07	10/09/08	10/09/08#	11/17/00	11/08/10	11/08/10#	11/07/11	11/07/11 #	11/14/12	11/11/13
Annual Parameters		10/24/00	10/24/01	.0,21,01#	.0,00,02	10,07,03	10/21/04	.,,	\$7/ <u>10/00</u>	,2010/	10,07,00	.0/07/00#	,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,55,15		11,97,11		,,.2	
Nitrogen, Ammonia	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	0.138 <sup>8</sup>	0.16 <sup>8</sup>	0.06	0.069	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	< 0.003	<0.003	-	-	-	-	-	-
Arsenic, Total	mg/L	-01	-01	-01	-01	-01			-0.05	<0.005	< 0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.004	<0.005	<0.005
Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	< 0.02	<0.01					- B	B
Aluminum, Total	mg/L	<0.005	<0.005	<0.005	<0.005	<0.00 <i>5</i>	<0.005	<0.005	- <0.001	<0.05 <0.001	< 0.02 < 0.001	< 0.02 < 0.001	<0.01 <0.001	<0.01	<0.01	<0.02	<0.02	<0.05 <sup>8</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved Antimony, Total	mg/L mg/L	\0.005	\0.005	\0.003	\0.003 -	\0.003	<0.005	\0.005	\0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	< 0.005	<0.005	10.001	10.001	10.001	10.001	-0.002	10.002
Cobalt, Total	mg/L	-	-	-	-	-	-	-		<0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L	0.251	0.208	0.162	0.296	0.123	0.174	0.234	0.209	0.247	0.26	0.256	0.325	-	-	-	-	-	
Manganese, Total	mg/L							-		0.309	0.272	0.286	0.333	0.321	0.312	0.248	0.29	0.5	0.38
Nickel, Dissolved Nickel, Total	mg/L mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.008	<0.006 <0.008	< 0.005 < 0.006	< 0.006 < 0.006	<0.0055 <0.006	<0.005	<0.005	<0.005	<0.005	0.002	<0.002
Benzene	ug/L	<5	<5	<5	<5	<5	<5	<5	<1	<1	< 1	< 1	<1	<1	<1	<1	<1	<1	<0.002
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.011
Five Year Parameters																			
TAL Inorganics	/1							144					144						
Chloride Cyanide, Total	mg/L mg/L	_[		_	-		-	1 <i>4</i> 6 <0.00 <i>5</i>	-	-		- [	164 <0.005	-	-	-	-	-	]
Nitrate-Nitrite	mg/L	]	]	.	_]		-	<0.003	_	]			<0.003	-			_	]	]
Sulfate	mg/L	_	_	_	-		-	69	-	-	-	_	52.8	-	-	_	-		_
Barium, Dissolved	mg/L	-	-	-	-	-	-	<0.2	-	-	-	-	0.0631	-	-	-	-	-	-
Beryllium, Dissolved	mg/L	-	-	-	-	-	-	<0.001	-	-	-	-	<0.0002	-	-	-	-	-	-
Cadmium, Dissolved	mg/L	-	-	-	-	-	-	<0.0005	-	-	•	-	<0.0002	-	-	-	-	-	-
Calcium, Dissolved Chromium, Dissolved	mg/L mg/L	_			_		•	132 <0.005	_	_	-		120 <0.001	-	-	_	-	-	- 1
Copper, Dissolved	mg/L	_	_	_	-		_	<0.025	_	_	_	_	<0.0015		_		_	_	1
Iron, Dissolved	mg/L	-	-	-	-	-	-	0.32	-	_	-	-	0.317	-	-	_		-	-
Lead, Dissolved	mg/L	-	-	-	-	-	-	<0.003	-	-	-	-	0.00504	-	-	-	-	-	-
Magnesium, Dissolved	mg/L	-	-	-	-	-	-	33.1	-	-	-	-	30.8	-	-	-	-	-	-
Mercury, Dissolved	mg/L	-	-	•	-	-	-	<0.0002	-	-	-	-]	<0.0002	-	-	-	-	-	-1
Potassium, Dissolved Selenium, Dissolved	mg/L mg/L		_	-	_		_	<5. <0.005	-		[		1.9 <0.002	[	-		-		
Silver, Dissolved	mg/L	_	_		-	_	_	<0.005		]	_		<0.0001		_				
Sodium, Dissolved	mg/L	-	-	-	-	-	-	88.8	-,	-	-[	-	71.5	-	-	-	-	-	_
Thallium, Dissolved	mg/L	-	-	-	-1	-	-	<0.002	-	-	-	-	<0.0002	-	-	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	-	-	-	-	<0.02	-	-	-	-	<0.002	-	-	-	-	-	-
Zinc, Dissolved Barium, Total	mg/L	-	-	-	-	-	-	<0.02	-1	•	-	-	0.00728 0.0629	-	-	-	-	-	-
Beryllium, Total	mg/L mg/L	_			]	]		-	_			]	<0.001		_	_	[		
Cadmium, Total	mg/L		-	-			-	_		-	-		0.000237	_	-	_	-	_	_
Calcium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	128	-	-	-	-	-	-
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-1	<0.002	-	-	-	-	-	-
Copper, Total	mg/L	-	-	-	-1	-	•	-	-	-	-	-	<0.005	-	-	-	-	-	-
Iron, Total Lead, Total	mg/L mg/L	-	-	-		-	-	-	-	-	-	-	0.382 <0.001	-1	-	-[	-[	-	1
Magnesium, Total	mg/L	_	-			]		_	-]			- [	32	]	]		]	-	1
Mercury, Total	mg/L	-	-	.	-	-	-	-	-	_	_	-	<0.0002	-		-	-		-
Potassium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	2.21	-	-	-	-	-	-
Selenium, Total	mg/L	-	-	-	-	-	-	-1	-	-	-	-	<0.005	-	-	-	-	-	-
Silver, Total Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-	-	-
Thallium, Total	mg/L mg/L	-	]		.]	]	]	-			<u> </u>	_]	71.4 <0.001	_	]		-	<u>.</u>	
Vanadium, Total	mg/L	]				-[		]	]	]	]	.]	<0.005	.]		]		]	_
Zinc, Total	mg/L	-	_	-				-					0.00485						
TCL VOCs*	ug/L	-	•	-	-	-	-	ND	-		-	-	ND	-	-	-	-	-	-
TCL SVOCs*	ug/L	-	-]	-	-	·* -	-	ND	-	-	-	-	ND	-	-	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-	-
Field Parameters	ug/L	-		-				ND					ND	-	-	-	-		
pH	s.u.	7.52	7.43	7.43	7.51	7.53	7.67	7.41	7.56	7.79	6.82	6.82	7.47	7.48	7.48	7.2	7.2	7.21	7.55
Conductivity	umhos/cm	943	738	738	986	930	972	1104	1088	1040	1170	1170	1270	1180	1180	1230	1230	1160	988
Temperature	°c	15.7	13.1	13.1	12.2	11.8	11.2	11.1	10.8	11	11.6	11.6	11.3	12.8	12.8	12.5	12.5	11.2	10.4
eH	millivts	10	7	7	-	82	-	-	29	-7	-13	-13	-50	-102	-102	-70	-70	-94	-64
Dissolved Oxygen	mg/L	1.3	3.29	3.29	-	3.08	-	-	6.16	7.59	2.05	2.05	0.82	1.04	1.04	0.95	0.95	0	0
Turbidity Supplemental Parameters	NTU								-	31	41	41	37	15	15	11	11	5	8
Total Dissolved Solids	mg/L	527	453	446	551	561	558	536	561	554	663	704	629	_[	_[_	_]			.
Total Suspended Solids	mg/L						::			-			<5	<5	<5	<5	<5	<4	<4

NOTES:
(TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill,

<sup>(</sup>TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested

<sup>(#)</sup> Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 8

### **ANALYTICAL SUMMARY TABLE** MONITORING WELL MW-06SB

PARAMETER	UNITS	10/28/99	10/28/99#	01/25/00	04/19/00	07/20/00	10/25/00	01/25/01	10/24/01	10/30/02	10/09/03	10/21/04	10/21/04#	1/10/06	09/27/06	11/27/07	11/27/07#	10/07/08	11/17/09	11/08/10	11/07/11	11/07/11#	11/14/12	11/11/12
Quarterly Parameters		10,20,11	10/20/1111	0.720700	0.7.2700	<u> </u>	10/20/02	<u> </u>	10/21/01	10,00,02	10/07/00	10/21/01	10/21/01/1	17.0700	07/27/00	11/21/01	11/21/01/1	10/07/00	11/11/02		11/0//11	11/0//11#	11/14/12	11/11/13
Nitrogen, Ammonia	mg/L	26	24	19.2	13	25	20.9	17.6	13.8		3.19	18.6	18.7	15.7	15.9	12.2	14.1	2.02	1.94	2.46 <sup>8</sup>	0.716	0.664	0.72	1.2
Arsenic, Dissolved Arsenic, Total	mg/L	0.164	0.164	0.133	0.0908	0.142	0.161	0.15	0.0251	0.0261	0.0336	0.0807	0.0786	0.0967	0.106	0.0145	0.0148	, ,	<0.003		-			
Annual Parameters	mg/L		-			-		-		-		-	-		-	0.0164	0.0171	0.0133	0.00414	0.00389	<0.004	<0.004	<0.005	<0.005
Aluminum, Dissolved	mg/L	-	-]	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	< 0.02	<0.01	-	-1	-	-	
Aluminum, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05		0.12	0.0332	<0.02	0.02	<0.05 <sup>8</sup>	0.065 <sup>B</sup>
Antimony, Dissolved Antimony, Total	mg/L	-	-	-	-	-	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001 <0.001	<0.001	< 0.001 < 0.001	<0.001	-0.001	-0.001			
Cobalt, Dissolved	mg/L mg/L	]	_	]	-[		<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.001 <0.005	< 0.001	<0.001 <0.00 <i>5</i>	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved Manganese, Total	mg/L mg/L	-	-	-	-	-	0.15	-	0.121	0.077	0.051	0.148	0.154	0.124	0.118	0.0965	0.0976	0.0601	0.0948	0.0070	2044	-		
Nickel, Dissolved	mg/L	]		-	- 1		<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.006	<0.006	0.101 0.0055	0.0632 < 0.005	0.0967 <0.005	0.0878	0.0646	0.0609	0.058	0.072
Nickel, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-1	-	-	-	<0.008	<0.007	< 0.005	<0.006	<0.005	<0.005	<0.005	<0.002	<0.002
Benzene Vinyl Chloride	ug/L	-	-	-	-	-	<5 <1	-	<5	<5 <1	<5	<5	<5	<5	<1	<1	<1	< 1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L ug/L	]	[]	_		]	<1	.]	<1 <1	<1	<1 <1	<1 <1	<1 <1	<1 <1	1.12 <0.02	<1 <0.02	<1 <0.02	< 1 < 0.02	<1 <0.02	<1 <0.02	<1 <0.02	<1 <0.02	<1 <0.029	<1 <0.011
Five Year Parameters									·-									10.02	10.02		10.02	10.02	10.027	
TAL Inorganics	,																					-		
Chloride Cyanide, Total	mg/L mg/L	:	]	-			]	.]	-		<u> </u>	<u> </u>	<u>:</u>	73 <0.005	-	-	<u>-</u>	-	59 <0.005	:	-	-	- 1	-
Nitrate-Nitrite	mg/L	.]		-	]	.]	.]	-]	-		]	]	]	<0.003	-1	-]	-	]	<0.003	]	]	-]	.]	_
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	57.7	-	-	-	-	
Barium, Dissolved Beryllium, Dissolved	mg/L mg/L		-	-	- 1			-	-	-	•	-		0.246 <0.001	-	-	-	-	0.139 <0.0002	-	-	-	-	
Cadmium, Dissolved	mg/L	:		-	-]	]	_]			]	-1	]	]	<0.001	.]	[]	]		<0.0002	-		]	]	
Calcium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	110	-	-	-	-	105	-	-	-	-	
Chromium, Dissolved	mg/L	-	-	-	-	-	-1	-	-	-	-	-	-	<0.005		-	-	-	<0.001	-	-	-	-	1
Copper, Dissolved Iron, Dissolved	mg/L mg/L		]			_	_]		-					<0.025 3.89		]	[		<0.001 1.86	-[	-	1		
Lead, Dissolved	mg/L	-	-1	-		-	-		-	-	-		-	<0.003	-	-	-	_	0.000239		-			. ]
Magnesium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	37.4	-	-	-	-	32.4	-	-	-	-	-
Mercury, Dissolved Potassium, Dissolved	mg/L mg/L		_	-]	-	-	]		_		-	-	-	<0.0002 28.9	-		-	-	<0.0002	-	-	-	-	-
Selenium, Dissolved	mg/L		-	-	-	-		-		]	-		3	< 0.005			-	_	<0.002	- 1	_	]	]	
Silver, Dissolved	mg/L	-	-	-	-	-	-	-[	-	-	-	-	-	<0.0005	-	-	-	-	<0.0001	-	-	-	-	-
Sodium, Dissolved Thallium, Dissolved	mg/L mg/L		-	-	-	-	-	-	-	-	-	-	-	63.9 <0.002	-	-	-	-	30.9 <0.0002	-	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	.]	_[	-	]	]	]	_	]	]	]	<0.02	]	-	-		<0.002	-	-	]	]	_
Zinc, Dissolved	mg/L	-	-	-1	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	<0.0065	-	-	-	-	-
Barium, Total Beryllium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	0.146	-[	-	-	-	-
Cadmium, Total	mg/L mg/L	_	_	]	]	-	.]	]	]		]			]	]	-	-		<0.001 <0.0002	-	-			_
Calcium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	l	112	-	-	-	-	-
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	- [	-	-	-1	-	-	<0.002	-	-	-	-	-
Copper, Total Iron, Total	mg/L mg/L	-	1			1	]	- 1	]	]				1	-				<0.005 1.94	-	-	1	-	-
Lead, Total	mg/L	-	-		-	-	-		-	-		-	-	-	-	-	-	_	<0.001	-1		]	-]	]
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	-	33.5	-1	-	-	-	-
Mercury, Total Potassium, Total	mg/L mg/L	-	-			-[	- 1	_		-	-	-	<u> </u>	-	-	-	-	-	<0.0002 5.44	-	-	-[	-	-
Selenium, Total	mg/L		-	.]		.]	-]	]	_]	]	]	-	]	[]	.]	]	- [		<0.005	-	]	]	.]	]
Silver, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-	-
Sodium, Total Thallium, Total	mg/L mg/L	-		- 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.9 <0.001	-	-	-	-	-
Vanadium, Total	mg/L		]	]	]		.]	]	-		-	]	.]	]	-]	]	.]	]	<0.001	]		]	-	_
Zinc, Total	mg/L														<u>-</u>	_		-	<0.0085					
TCL VOCs* TCL SVOCs*	ug/L ug/L	-	-	-		-	1	-	-	-	-	-	-	ND ND	-	-	-	-	ND	-	-	-	-	1
TCL Pesticides*	ug/L ug/L	-			- ]	.]	-					]	]	ND	]	]			ND ND	]	]	]		_
TCL PCBs*	ug/L						-							ND					ND					
Field Parameters		اا	710		70.	,	7.00	, ,,			T			T										
pH Conductivity	S.U. umhos/cm	7.13 1258	7.13 1258	7.44 1146	7.31 1062	6.97 1249	7.23 1198	6.99 1190	7.37 1150	7.35 866	7.7 1120	7.22 1094	7.22 1094	7.24 1072	7.31 1085	6.65 900	6.65 900	7.08 880	7.52 1030	7.47 916	7.11 979	7.11 979	7.16 977	<i>7.</i> 5 913
Temperature	°C	11.6	11.6	8.5	11.5	12.6	14.5	9.2	14.7	11	13.5	11.3	11.3	10.4	11.8	8.3	8.3	11.8	11	12.8	13.9	13.9	10.1	8.5
eH	millivts	-4	-4	-26	-18	-2		-23.2	-16		71	-	-	-	-24	-9	-9	-103	-74	-126	-101	-101	-106	-89
Dissolved Oxygen Turbidity	mg/L NTU	0.95	0.95	0.71	1.07	0.94	-	1.24	3.49	-	2.79	-	-	-	2.16	4.23	4.23 19	1.6 48	2.14	2.57	1.11	1.11	인	0
Supplemental Parameters		<b></b>		<del>-</del>	<del></del>	1				<del>-</del>		-	-		-	14	19	48	2					38
Total Dissolved Solids	mg/L	605	612	565	488	598	606	596	598	491	585	529	558	432	498	528	357	474	490	-	-		-	_
Total Suspended Solids	mg/L	<u></u>		= 1			-										<u> </u>		< 5	9	5.5	6	<4	<4

- NOTES:
  (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.
  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.
  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.
  Only those parameters reported at or above the laboratory practical quantitation limit are listed.
  (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested
- (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 9

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-075B

PARAMETER	UNITS	10/24/00	10/24/00#	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	1/11/06#	09/27/06	11/26/07	10/07/08	08/27/09	11/18/09	11/18/09#	11/09/10	11/09/10#	11/08/11	11/15/12	11/15/12#	11/12/13	11/12/13#
Annual Parameters		10,2.,00	10/21/00//	10/21/01	10,00,02	10/02/00	10/21/04	1,11,00	1/11/00#	07/27/00	11/20/07	10,0,,00	00/27/07	11/10/07	11/10/02/1	11/02/10	11/07/10#	11/00/11	11/13/12	_ 11/10/12#	11/12/13	11/12/13#
Nitrogen, Ammonia	mg/L	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			< 0.05	-	<0.05	0.069	0.193 <sup>8</sup>	0.3188	0.071	<0.2	<0.2	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		< 0.003	< 0.003	<0.003	<0.003			-		-	-	-
Arsenic, Total	mg/L	<0.1	<0.1	<0.1	- <0.1	<0.1	- <0.1	<0.1	- <0.1	- -0.05	<0.005	0.00462 < 0.02	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Aluminum, Dissolved	mg/L	\ \0.1	\0.1	\( \cdot 0.1 \)	<b>\0.1</b>	<b>VO.1</b>	<b>~0.1</b>	<b>\0.1</b>	<0.1	<0.05	<0.05		< 0.01	<0.01	<0.01	00114	-0.01		B	-0.058	- B	
Aluminum, Total Antimony, Dissolved	mg/L mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.0502 <0.001	0.811	0.0183 < 0.001	0.0141 <0.001	0.0148 <0.001	0.0114	<0.01	<0.02	<0.05 <sup>b</sup>	<0.05 <sup>8</sup>	<0.05	<0.05 <sup>8</sup>
Antimony, Total	mg/L		- 0.003	-	-0.003	-0.005	-0.003	\0.005	~0.005		<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	< 0.005	<0.005	<0.005	-	-	-	-	10.002	-0.002	10.002
Cobalt, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Manganese, Dissolved	mg/L	0.04	0.031	<0.02	<0.02	<0.02	<0.02	0.037	<0.02	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01				-	-	-	-
Manganese, Total Nickel, Dissolved	mg/L mg/L	<0.05	- <0.05	- <0.05	- <0.0 <i>5</i>	<0.05	<0.05	<0.05	<0.05	<0.005	<0.01 <0.005	0.241 < 0.005	0.106 < 0.005	0.0251 <0.005	0.0271 <0.005	0.0114	0.0111	<0.01	0.037	0.03	0.024	0.018
Nickel, Total	mg/L	- 0.03	\0.03	\0.03	-0.03	\0.03	\0.03	\0.03	-0.03	~0.003 -	<0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002
Benzene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	< 1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	< 1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.029	<0.011	<0.011
Five Year Parameters		i			Ì							i										·
TAL Inorganics Chloride	mg/L	_		_	_	_		54	52					64.9	45							ŀ
Cyanide, Total	mg/L	] [	]	.	-]	]	]	<0.005	<0.005	_		]	]	< 0.005	65 <0.005	]				]		]
Nitrate-Nitrite	mg/L				-	-]	-	1.07	1.12	_	]	.]	.]	0.566	0.568					_]	.]	]
Sulfate	mg/L	-	-	-	-	-	-	26	23	-	-	-	-	25	25.2			_	-	-	-	.
Barium, Dissolved	mg/L	-	-	-	-	-	-	<0.2	<0.2	-	-	-	-	0.0143	0.0142	-	-	-	-	-	-	-
Beryllium, Dissolved	mg/L		-	-	-	-	-	<0.001	<0.001	-	-	-	-]	<0.0002	<0.0002	-	-	-	-	-	-	-
Cadmium, Dissolved Calcium, Dissolved	mg/L mg/L				_	- 1	-	<0.0005 90.1	<0.0005 96.1	-	-	-	-1	<0.0002 78.5	<0.0002 77.8	-	-	-	-[	-	-	-
Chromium, Dissolved	mg/L				]	_[		<0.005	<0.005			]		<0.001	<0.001	_	_	-				1
Copper, Dissolved	mg/L				-	-	-	<0.025	<0.025	-	-	-	-	<0.001	<0.001	_	_	-		-		_
Iron, Dissolved	mg/L	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	<0.1	<0.1	-	-	-		-		-
Lead, Dissolved	mg/L		-	-	-[	-	-	<0.003	<0.003	-	-	-	-	0.000256	<0.0002	-	-	-	-	-	-	-
Magnesium, Dissolved Mercury, Dissolved	mg/L	1 -	-	-	-	-	-	21.8 <0.0002	22.8 <0.0002	•	-	-	-	19.6	19.5	-	-	-	-	-	-	-
Potassium, Dissolved	mg/L mg/L			_	]	]	_[	<5	<0.0002 <5		]	]		<0.0002 1.36	<0.0002 1.36	-		-			-	- ]
Selenium, Dissolved	mg/L		_	_			-	<0.005	<0.005		]	.]	.]	<0.002	<0.002		]	_	]		.]	
Silver, Dissolved	mg/L	-	-	-	-	-	-	<0.0005	<0.0005	•	-	-	-	< 0.0001	<0.0001	-	-	-	-	-	-	-
Sodium, Dissolved	mg/L	-	-	-	-	-	-	38.7	41.1	-	-	-	-	40.9	41.2	-	-		-	-	-	-
Thallium, Dissolved	mg/L	-	-	-	-	-1	-1	<0.002	<0.002	•	-	-	-	<0.0002	<0.0002	-	-	-	-	-	-	-
Vanadium, Dissolved Zinc, Dissolved	mg/L mg/L		_	-	1	]		<0.02 <0.02	<0.02 <0.02	-	-	-	-	<0.002 <0.004	<0.002 <0.004	-	•	-	-	-	-	-
Barium, Total	mg/L		_			]		10.02	-0.02		[]		]	0.0164	0.0167	]		]	]		-	1
Beryllium, Total	mg/L	-	-	-	-		-	-	-	-	-,	_	-	<0.001	<0.001		_	-		_	-	3
Cadmium, Total	mg/L	-	-	-	-	-	-	-	-	-	-1	-	-	<0.0002	<0.0002	-	-	-	-	-	-	-
Calcium, Total	mg/L	-	-	-	-	-	-1	-	-	-	-	-	-	80.6	80.4	-	-	-	-	-		
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	- 1	-	-	-
Copper, Total Iron, Total	mg/L mg/L		-			]	]			-			-	<0.005 0.215	<0.005 0.198	-	-	-	1	-	-	-
Lead, Total	mg/L	_	_	-	_		-	-]		_	_]	_	]	<0.001	<0.001						]	]
Magnesium, Total	mg/L	-	-		-	-	-	-	-	-	-	-	-	19.7	19.6	-	-	-	-	-		-1
Mercury, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	<0.0002	-	-	-	-	-	-	.
Potassium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.57	1.54	-	-	-	-	-	-	-
Selenium, Total Silver, Total	mg/L mg/L	1	-	-	-	- [	-	-	-	-	-	-	-	<0.005 <0.0005	<0.005 <0.0005	-	-	-	-[	-	-	-
Sodium, Total	mg/L	]		]	]	]	]	]	]		]	.]	]	40.3	<0.0003	_[	<u>-</u>			1	-1	_
Thallium, Total	mg/L		_	_[	_	_	-	_]				_]	.]	<0.001	<0.001		.]	.]	[]	- 1	.]	]
Vanadium, Total	mg/L	-	-	-	-		-	-	-	-	-	-	-	<0.005	<0.005	-]	-	-	-	-	-	
Zinc, Total	mg/L	-	-	-		<del>-</del>	-	-		<u>-</u>		-		<0.005	<0.004							
TCL VOCs*	ug/L	-	-	-1	-	-	-	ND	ND	-	-	-	-	ND	ND	-		-	-	-	-	-
TCL SVOCs* Di-n-propylnitrosamine	ug/L ug/L		_				]	ND ND	ND ND	•	-	-		ND	30.8	-	-	-	-	-	-	-
TCL Pesticides*	ug/L			]	]	_]	]	ND	ND	-	]	- [	]	ND	ND:	]	]	_		]	]	_
TCL PCBs*	ug/L							ND	ND					ND	ND						_	-
Field Parameters																						
pH	S.U.	7.31	7.31	8.41	7.8	7.53	7.63	7.79	7.79	7.4	7.05	7.25	7.01	6.4	6.4	7.58	7.58	7.69	6.55	6.55	7.3	7.3
Conductivity Temperature	umhos/cm °C	636	636 1 <i>4.7</i>	452 16.1	501 10.6	683 11.5	708 10.7	572 10.9	572	739	859	563	815	738	738	788	788	527	851	851	610	610
remperature teH	millivts	14.7	-2	127	10.8	131	10.7	10.9	10.9	11.4 140	10.1	11.5	10.8 50	10.7 130	10.7 130	-9	-9	11.5 -62	8.4 123	8.4 123	11.1	11.1
Dissolved Oxygen	mg/L	4.15	4.15	7.7	.]	2.77	.]	.]	]	4.61	5.92	2.23	8.89	4.48	4.48	5.26	5.26	7.3	1.42	1.42	1.18	1.18
Turbidity	NTU	<u> </u>			-						7	68	ND	17	17	2	2	1	7	7	72	72
Supplemental Parameters	1																					
Total Dissolved Solids	mg/L	364	376	291	337	398	386	287	288	322	217	277	406	373	373			-	-	-[	-	-
Total Suspended Solids	mg/L	<u>.                                    </u>	-		-						<u> </u>	-	6.5	5.5	5	<5	10.5	<5	<4	<4	<4	<4

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(8) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested
(#) Duplicate sample
(ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 10

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-07SG

PARAMETER	UNITS	10/24/00	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/27/06	11/26/07	10/07/08	10/7/08#	11/18/09	11/09/10	11/08/11	11/15/12	11/15/12#	11/12/13	11/12/13#
Annual Parameters		, ,					.,,	, , , , , , , , , , , , , , , , , , , ,		, ,						, ,	, ,	
Nitrogen, Ammonia	mg/L	8.64	3.98	3.66	3.5	5.07	5.96	4.04	4.38	1.28	1.2	1.58	2.69 <sup>8</sup>	1.85	2.8	2.9	2.1	2.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	< 0.003	0.00316	00044	<0.004	0.0057	0.005		
Arsenic, Total Aluminum, Dissolved	mg/L	0.24	- <0.1	<0.1	- <0.1	<0.1	<0.1	<0.05	<0.005 <0.05	0.00633 < 0.02	0.00694 < 0.02	0.00312 <0.01	0.00464	<0.004	0.0056	0.005	0.005	<0.005
1	mg/L	0.24	<b>~0.1</b>	~0.1	<b>~0.</b> 1	VO.1	<b>~0.1</b>	\0.03	<0.05	1.06	1.1	<0.01	<0.01	<0.02	<0.05 <sup>B</sup>	<0.05 <sup>B</sup>	<0.05 <sup>B</sup>	<0.05 <sup>B</sup>
Aluminum, Total Antimony, Dissolved	mg/L mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	< 0.001	<0.01	\0.01	\0.02	\0.03	\0.05	\0.03	\0.05
Antimony, Total	mg/L	-	-	-		-0.000	-	-0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	< 0.005	<0.005	-	-	-	-	•	-
Cobalt, Total	mg/L	-	-	-	-	-	-	-	<0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	0.0024	0.0023	0.0026	0.0026
Manganese, Dissolved	mg/L	1.37	1.22	1.11	1.17	1.02	1	0.794	0.741	0.752	0.761	0.591	2 500					
Manganese, Total Nickel, Dissolved	mg/L mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.00594	0.8 0.00762	0.834 < 0.005	0.86 < 0.005	0.636 <0.007	0.598	0.628	0.64	0.63	0.71	0.74
Nickel, Total	mg/L	10.05	-	-0.05	-0.05	10.05	-0.05	-	0.00562	0.00565	0.0055	<0.0065	<0.006	<0.006	0.0028	0.0028	0.0034	0.0033
Benzene	ug/L	<5	<5	<5	<5	<5	<5	<1	<1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.03	<0.030	<0.011	<0.011
Five Year Parameters TAL Inorganics								İ										
Chloride	mg/L	_[	_	_	_	_	5	_	_	_	_	1.48	_	_	_	_	_	
Cyanide, Total	mg/L	-	.	-	-	-	<0.005	-	-	-	-	<0.005	.	_	-	_	-	│ .
Nitrate-Nitrite	mg/L	-	-	-	-	-	<0.02	-	-	-	-	<0.02	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	6	-	-	-	-	<1	-	-	-	-	-	-
Barium, Dissolved	mg/L	-1	-	-	- 1	-	<0.2 <0.001	1	-	-		0.0999 <0.0002	-	•	-	-	-	-
Beryllium, Dissolved Cadmium, Dissolved	mg/L mg/L	]	]	]	]	- ]	<0.005	]	.]	]	-	<0.0002	]	]	]		]	]
Calcium, Dissolved	mg/L	-	-	-	-	-	122			-	_	91.7	-		-	-	-	_
Chromium, Dissolved	mg/L	-	-	-	-	-	<0.005	-	-	-	-	<0.001	-	-	-	-	-	-
Copper, Dissolved	mg/L	-	-	-	-	-	<0.025	-	-	-	-	<0.001	-	-	-	-	•	-
Iron, Dissolved	mg/L	•	-	-	-	-	0.49 <0.003	-	-	-	-	0.898 0.000334	-	-	-	-	•	-
Lead, Dissolved Magnesium, Dissolved	mg/L mg/L	-		_	[]		25.4				-	15.5				_	•	-
Mercury, Dissolved	mg/L	-	-	-	-	-]	<0.0002					<0.0002	-	-	_	-	-	-
Potassium, Dissolved	mg/L	-]	-	-	-	-	8. <i>7</i>	-	-	-	-	3.75	-	-	-	-	-	-
Selenium, Dissolved	mg/L	-	-	-	-	-	<0.005	-	-	-	-	<0.002	-	-	-	-	-	, <b>-</b>
Silver, Dissolved	mg/L	•	-	-	-	-	<0.0005	-	-	-	-	<0.0001	-	-	-	-	-	-
Sodium, Dissolved Thallium, Dissolved	mg/L mg/L		_		]	]	<0.002	_	- 1	_	-	<5 <0.0002	]	1	-	-	_	
Vanadium, Dissolved	mg/L		_	_			<0.02	_	_	-		<0.002		_	_	_	_	_
Zinc, Dissolved	mg/L	-	-	-	-	-	<0.02	-	-	-	-	<0.005	-	-	-		-	-
Barium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	0.108	-	-	-	-	-	-
Beryllium, Total	mg/L	-	-	-	-	-	-	-	-	-	•	<0.001 <0.0002	-	-	-	-	-	-
Cadmium, Total Calcium, Total	mg/L mg/L			]			-	]				94.4				]		
Chromium, Total	mg/L		-	-		-	-		- 1			<0.002	-	-	_	_		_
Copper, Total	mg/L	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-
Iron, Total	mg/L	-	-	-	-	-	-	-	-	-	-	0.814	-	-	-	-	-	-
Lead, Total	mg/L	-	-	-	-	-1	-	, ·	1	-	-	<0.001 1 <i>5</i> .6	-	-	-	-	•	-
Magnesium, Total Mercury, Total	mg/L mg/L	]	]	]	]	<u>.</u> ]	<u>:</u>	<u> </u>	<u>:</u>		-	<0.0002	<u>-</u>	<u> </u>	<u> </u>	<u>.</u> ]		
Potassium, Total	mg/L	]	-		-	.]	.]	.]	]	-	-	4.09	.]	.]	_]	.]	.]	_]
Selenium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	<0.005	-	-[	-	-	-	-
Silver, Total	mg/L	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-	-	-
Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	< 0.001	-	-	-	-	-	-
Thallium, Total Vanadium, Total	mg/L mg/L		]		[]		]		]	_]	-	<0.001 <0.005		]		]		
Zinc, Total	mg/L	]	.]	.]	.]	.]		.]	.]		-	0.00558	.]	.]	.]			_]
TCL VOCs*	ug/L	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-	-
TCL SVOCs*	υg/L	-	-	-	-	-	ND	-	-1	-	-	ND	-	-	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L	-	-	-	-	-	ND	-	-	-	-	ND	-	-	•	-	-	-
Field Parameters	ug/L		-				ND			-		ND	-	-	-	-		
pH	s.u.	6.77	7.25	7.11	7.39	7.38	7.11	7.35	6.72	6.79	6.75	6.63	7.19	6.93	6.55	6.55	6.89	6.89
Conductivity	umhos/cm	1090	746	703	766	708	703	680	852	656	656	605	607	663	623	623	658	658
Temperature	°C	17.2	15.1	12.7	13.6	13	11	13.3	11.6	14.2	14.2	12	11.9	12.7	11.4	11.4	9.3	9.3
eH	millivts	-	140	-	158	-	-	111	-73	52	52	45	-116	-57	-96	-96	-50	-50
Dissolved Oxygen Turbidity	mg/L NTU	-	3.84	-	2.05	-	-	3.7	1.38 17	2 212	2 212	1.7	1.53	1.16	0	0	0	္ချ
Supplemental Parameters	1410	-					-				212	40			'		3	
Total Dissolved Solids	mg/L	604	460	424	433	406	365	342	225	322	320	300	_	-	-	-	_	ااـ
Total Suspended Solids	mg/L	-	-	-	-	-	-			-	-	58	<5	<5	4	4	<4	<4

NOTES:

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Lanc (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

<sup>(#)</sup> Duplicate sample
(ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 11

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-085B

PARAMETER	UNITS	10/28/99	01/25/00	04/19/00	07/20/00	10/24/00	01/25/01	01/25/01#	10/24/01	10/29/02	10/09/03	10/21/04	1/10/06	09/27/06	11/27/07	10/07/08	8/27/09	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Quarterly Parameters	1	,,	,,	2.7.5/00	,,	,,	,., <u></u> ,,		,-,,-,		.0,00,00	,2.,,03	.,,	22,24,00	,,	. 5,57,00	<i>5,2 101</i>	,.,,,,,,	,	11,01,111	.,,.7,12	,,.
Nitrogen, Ammonia	mg/L	0.52			0.52	0.45	0.52	0.49	0.2	0.18	<0.05	0.07	0.15	0.182	<0.05	< 0.05	_	0.145	0.257 <sup>B</sup>	0.115	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0054	0.0099	0.0152	0.0079	<0.005	0.00504	<0.005	0.00525	<0.003	<0.003				
Arsenic, Total Annual Parameters	mg/L	<del>-</del>				-							<del>-</del>		<0.005	0.0132	<0.003	0.00342	0.00694	<0.006	<0.005	<0.005
Aluminum, Dissolved	mg/L			_	_	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01	<0.01	_	_	_	_
Aluminum, Total	mg/L		_	_	_		_	_		-			-	_	0.108	0.289	0.128	0.025	0.0978	0.0783	0.064 <sup>8</sup>	0.058 <sup>B</sup>
Antimony, Dissolved	mg/L	-		_	-	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	< 0.001	<0.001	-	-	-	-
Antimony, Total	mg/L	-	-	-	-	-	-	-	-	-1	-	-	-	-	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	-	-	-	-	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	< 0.005	<0.005		-	-	-
Cobalt, Total Manganese, Dissolved	mg/L mg/L	·	-	-	-	0.087	-	-	0.135	0.072	<0.020	0.081	0.066	0.0594	<0.005 0.0404	< 0.005 0.0196	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Total	mg/L	_				0.087		-	0.135	0.072	<0.020	0.081	0.000	0.0394	0.0404	0.0198	0.0631 0.0648	0.0691 0.0761	0.0661	0.0467	0.034	0.047
Nickel, Dissolved	mg/L	-	-		-	<0.05	-	_	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.006	< 0.005	< 0.005	<0.005	-	0.040,	0.004	-
Nickel, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.008	< 0.0052	< 0.005	<0.005	<0.005	<0.005	<0.002	<0.002
Benzene	ug/L	-	-	-	-	<5	-	-	<5	<5	<5	<5	<5	<1	<1	< 1	-	<1	<1	<1	<1	<1
Vinyl Chloride 1,2-Dibromo-3-Chloropropane	ug/L	-		-	-	<1 <1	-	-	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <0.02	<1 <0.02	< 1 < 0.02	-	<1	<1	<1	<1	<1
Five Year Parameters	ug/L	<u> </u>												<0.02	<0.02	< 0.02		<0.02	<0.02	<0.02	<0.029	<0.011
TAL Inorganics																				l	İ	1
Chloride	mg/L	-	-	.	-	-	-	-	-	-	-	-	38	-	-	-	-	19.5	-	-	.	-
Cyanide, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	<0.005	-	-	-	-
Nitrate-Nitrite	mg/L	-	[ -	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	<0.02	-	-	-	-
Sulfate Barium, Dissolved	mg/L mg/L					]:		, •		- 1	-	-[	82 <0.2	-	-	-	-	67.3 0.0606	- [	-	-	-
Beryllium, Dissolved	mg/L	_	]	]	<u> </u>	.]	-			]	]	]	<0.001	]		<u>]</u>		<0.0002		.[		1
Cadmium, Dissolved	mg/L	-	-				-	-	-	-			<0.0005	_]	-	-		<0.0002	_]	-]	.]	1
Calcium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	118	-	-		-	83.1		-	-	-
Chromium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-1	-	<0.001	-	-	-1	-j
Copper, Dissolved Iron, Dissolved	mg/L mg/L	-	-	•	-	-	-	-	-	-	-	-	<0.025 0.8	-	-	-	-	<0.001 0.452	-	-1	-[	-1
Lead, Dissolved	mg/L	_	]		_	]	_	]	_]		.]		<0.003	]	]	]	- [	0.00024		]		1
Magnesium, Dissolved	mg/L	-	-	_	-	-	-	-	-	-	-	_	30.9			-	-	23.2	_	.]	-	1
Mercury, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-i	<0.0002	-	-	-	-
Potassium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	1.37	-	-	-	-
Selenium, Dissolved Silver, Dissolved	mg/L	-	'	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	<0.002	-	-	-1	-1
Sodium, Dissolved	mg/L mg/L	_	]	_	]	-	[]				[	]	<0.0005 22.6				]	<0.0001 10.9	]	1	1	
Thallium, Dissolved	mg/L	_	_	_	_	_]		-	-	-	_	_	<0.002		-		_]	<0.0002	_]	]		]
Vanadium, Dissolved	mg/L	-		-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	<0.002	-1	-	-	-
Zinc, Dissolved	mg/L	-	-	-	-	-1	-	-	-	-	-	-	<0.02	-	-	-	-	<0.005	-	-	-	-
Barium, Total	mg/L	-	-	-	-	-1	-	-	-	-	-	-	-	- '	-1	-	-	0.0611	-	1	-	-
Beryllium, Total Cadmium, Total	mg/L mg/L					]		]		]	_	]	- 1	-				<0.001 <0.0002	1		1	-
Calcium, Total	mg/L	-	-	-	-		-	-			-		-	_	_]			89		_}	]	]
Chromium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	<0.002	-	-[	-	
Copper, Total	mg/L	-	-	-	-[	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-
Iron, Total Lead, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.558	-	-	-	-
Magnesium, Total	mg/L mg/L	]		]		]		_				-]		<u> </u>	-		-	<0.001 24.1	-	-	-	-[
Mercury, Total	mg/L	]	]	]	_]	]		]	-	]	.]	-1		]	]	]	]	<0.0002	]	]	]	
Potassium, Total	mg/L	-	-	-	-	-	-]	-	-	.	-	-	-	-	-	-	-	1.62		-	_	.
Selenium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-}	-	-
Silver, Total Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-
Thallium, Total	mg/L mg/L		] ]	]	]	]	[]	<u> </u>		[ ]			<u>-                                    </u>	_	_[		- 1	10.6 <0.001	-	-	1	1
Vanadium, Total	mg/L		]	]	.]	]	.]	]	.]	_]	]	.]	.]	]	-]	]	.]	<0.001	]		]	]
Zinc, Total	mg/L					-	-		-		-							<0.006	-			
TCL VOCs*	ug/L	-		-	-[	-[	-[	-[	-	-	-		ND	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	•	-	-	-	-	-	-	-	-	-	-	ND	-1	-	-	-	5.84	-	-	-	-
TCL SVOCs* TCL Pesticides*	ug/L ug/L	.			.]	]	]				-	1	ND ND	1	-	_	-]	ND ND	-	-	-	-
TCL PCBs*	ug/L	]	.	]	]	]	[]	-	-1	]		]	ND	]	]	]	]	ND		]		]
Field Parameters	T																					
рН	s.u.	7.25		7.34	7.03	7.28	7.08	7.08	7.55	7.61	7.28	7.48	7.46	7.45	6.04	7.42	6.66	7.84	7.9	7.82	7.38	6.36
Conductivity	umhos/cm	928		982	1002	1034	1010	1010	652	543	745	718	754	728	879	525	770	590	562	15	535	471
Temperature eH	°C millivts	11.4 -10	9.4 -17	11.2	11.9	14	9.6	9.6	13	9.9	12.8	11.1	10.2	11.4	9.6	11.1	11.2	10.6	10.5	13.5	10.3	10.5
Dissolved Oxygen	millivts mg/L	0.48		-19 1.04	2.05	]	22.3 2.3	22.3 2.3	140 6.62	-	38 1.02	<u> </u>	-	170 3.1	217 7.77	48 2.71	<i>-7</i> 8	-13 2.13	-77 3.2	15 2.59	34 2.02	80
Turbidity	NTU	-	0.12	-	05	_}	2.5	2.5	3.02	-]	1.02	]	_]	3,1	42	68	ND	2.13	16	13	5	24
Supplemental Parameters																						
Total Dissolved Solids	mg/L	558	580	538	606	650	626	599	421	440	331	293	368	402	248	274	418	395	-	-	-	-
Total Suspended Solids	mg/L	<u> </u>	<u> </u>		-	-									<u> </u>		17	<5	14.5	<5	10	<4

NOTES:

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill. (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill. (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested ( # ) Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 12

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-09SB

PARAMETER	UNITS	10/28/99	01/25/00	04/19/00	04/19/00#	07/20/00	10/24/00	01/25/01	10/24/01	10/29/02	10/29/02#	10/09/03	10/09/03#	10/21/04	1/10/06	09/27/06	11/27/07	10/07/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Quarterly Parameters																						, ,	
Nitrogen, Ammonia	mg/L	13	12		9.8	10.5	10.4	11.3	10.4	8.24	8.44	7.28	7.32	7.87	6.84	6.6	6.12	3.16	3.66	4.98 <sup>8</sup>	4.41	4.8	4.7
Arsenic, Dissolved Arsenic, Total	mg/L mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 <0.005	< 0.003 < 0.003	<0.003 <0.003	<0.003	<0.003	<0.005	<0.00 <i>5</i>
Annual Parameters	iiig/ L												1	1			V0.003		10.000	10.005		<u> </u>	\0.003
Aluminum, Dissolved	mg/L	-	-	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01	-	-	-	-
Aluminum, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.326	0.0712	0.0596	0.0517	<0.02	<0.05 <sup>B</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved	mg/L	-	-	-	-	-	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001				
Antimony, Total Cobalt, Dissolved	mg/L mg/L	]		_	-		<0.01	-	- <0.01	<0.01	- <0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.001 <0.005	< 0.001 < 0.005	<0.001 <0.005	<0.001	<0.001	<0.002	<0.002
Cobalt, Total	mg/L	-	-		-		-	-1	-	-	10.01	-	-	-	-	-0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L		-	-	-	-	0.095	-	0.08	0.071	0.073	0.084	0.085	0.08	0.074	0.0675	0.0663	0.0518	0.0586	-	-	-	-
Manganese, Total	mg/L	-	-	-	-	-		-	-	-				-			0.0756	0.0611	0.0646	0.0629	0.0612	0.06	0.069
Nickel, Dissolved Nickel, Total	mg/L mg/L	]	-	_		_	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.006	<0.005 <0.005	< 0.005 < 0.005	<0.005 <0.0055	<0.005	<0.005	<0.002	<0.002
Benzene	ug/L	-	_	-	-	_]	<5	.]	<5	<5	<5	<5	<5	<5	<5	<1	<1	< 1	<1	<1	<1:	<1	<1
Vinyl Chloride	ug/L	-	-	-	-	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	i	-	-	-		<1	-	<1	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.029	<0.011
Five Year Parameters TAL Inorganics								ļ					i										
Chloride	mg/L		_	_	_	_	_	_	-	_	_	_		_	64		_	_	59.1	.	-		_
Cyanide, Total	mg/L	] -	-	-	-	-	-	-	-	-	-		-	-	<0.005	-	-	-	<0.005	-	-	-	
Nitrate-Nitrite	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-i	0.343	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-1	-	62.3	-	-	-	-
Barium, Dissolved Beryllium, Dissolved	mg/L mg/L	]		]	[	[	]		]	_	_[		]		0.236 <0.001		.]	]	0.1 <i>55</i> <0.0002		]	]	_
Cadmium, Dissolved	mg/L	-	.	_]	-[	-	-	-	_	-]	-]	_	.]	-	<0.0005	_	-		<0.0002	-]	]	.]	-
Calcium, Dissolved	mg/L	-	-	-	-	-	-1	-	-[		-	-	-	-	125	-	-	-[	96	-	-	-	-
Chromium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	- 1	<0.005	-	-	-	<0.001	-	-	-	-
Copper, Dissolved Iron, Dissolved	mg/L mg/L	]	-	_		_	]		-		-	3	1		<0.025 1.4	-	- 1	-	<0.001 0.77	-[	-	-	-
Lead, Dissolved	mg/L	]	_			-	.]		-1	-	-	_]	]	_]	<0.003	_	]	_]	<0.0002	-	]	]	]
Magnesium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	37.6	-	-	-	30.4	-	-	-	-
Mercury, Dissolved	mg/L	-	-	-[	-	-	-	-	-	-	-	-	-	-1	<0.0002	-	-	-	<0.0002	-	-	-	-[
Potassium, Dissolved Selenium, Dissolved	mg/L	-	-	-	-	-	-	1	-	-	-1	-	-	-	13.2 <0.005	-	-	-	8.02 <0.002	-1	-	-	-
Silver, Dissolved	mg/L mg/L	]	-	-	]	_	]	]				-	-	]	<0.005	1	]	]	<0.002				]
Sodium, Dissolved	mg/L	l -i	-	-,	-i	-	-	-	-	-	-	-	- 1	-	45.6	-		-	31.5	-	-	-	
Thallium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	-	-1	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	<0.002	-	-	-	-
Zinc, Dissolved Barium, Total	mg/L mg/L	]			]	-		]		]	-				<0.02	.]			<0.008 0.1 <i>5</i> 8	- [	-		
Beryllium, Total	mg/L	.	_	_	-	-	-	-	-	-]	-	_]	-				.]	-	<0.001	-	-	-	
Cadmium, Total	mg/L	-	-	-	-	-	-	-	-	-1	-	-	-	-	-	-	-	-1	<0.0002	-	-	-	-[
Calcium, Total	mg/L	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-:	-	-
Chromium, Total Copper, Total	mg/L mg/L	]		-	1	_	]				-		_		1		1		<0.002 <0.005	-	-	-	-
Iron, Total	mg/L			-]		-		_[	- 1	]		_]	-	.]		- ]		_	1.03		-	_]	]
Lead, Total	mg/L	-	-	-	-	-	-}	-	-	-	-		-	-	-	-	-	-	<0.001	-}	-	-	-
Magnesium, Total	mg/L	-	-	-	-1	-[	-	-	-	-	-	-	-	-	-	-	-	-	30.8	-	-	-	-
Mercury, Total Potassium, Total	mg/L mg/L	]			]	-		_]		-	-	_			-	-	-	-1	<0.0002 8.77	-	-	-	-
Selenium, Total	mg/L	]	-]	-]		-	.]	_]	.]	-]	-]	-]	]	.]	.]	_]	_		<0.005	.]	-	]	]
Silver, Total	mg/L	-	-	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-
Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	31.1	-	-	-	-
Thallium, Total Vanadium, Total	mg/L mg/L	-	-	-	-	-	-	- 1	-	-	-[	-	-	- 1	-	-	-	-	<0.001 <0.005	-	-	-	-
Zinc, Total	mg/L	]	]	- ]		]	]	]	]	- 1	.]	]		]		_]	]	]	<0.005	]	.]	.]	
TCL VOCs*	ug/L	-	-	-	-	-		-	-	-		-	-	-	ND				ND	-	-	-	-
TCL SVOCs*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L ug/L	-	-	-	-	-[	-	-	-	-	-	-	-	-	ND ND	-	-	-	ND ND	•	-	-	-
Field Parameters	ug/L			<del>-</del>			<del></del>				-	<del>-</del>							טא				-
pH	s.u.	7.17	7.31	7.26	7.26	7.1 <i>7</i>	<i>7</i> .13	6.99	7.29	7.38	7.38	7.14	7.14	7.24	7.25	7.43	6.45	7.11	7.85	7.44	7.12	7.04	7.45
Conductivity	umhos/cm	1239	1235	1190	1190	1210	1246	1290	930	937	937	951	951	993	941	970	900	905	929	911	944	946	828
Temperature	°C	11.3	10	11.2	11.2	12.2	14	9.7	14.9	10.9	10.9	12.3	12.3	10.8	10.4	11.5	9	11	10.6	12.3	12.7	9.9	9.5
eH Dissolved Oxygen	millivts mg/L	-6 0.48	-1 <i>4</i> 0.56	-16 1.47	-16 1.47	-11 2.17	1	16.9	-76 3.21	-	-	11	11	]	-	-60 3	16 7.54	18 0.99	-80 1.14	-124 1.28	-100 1.59	-109	-89 0
Turbidity	NTU	0.46	0.56	1.4/	1.4/	2.17	]	2.2	3.21	]	]	1.27	1.27	]	.]	3	7.54 56	36	ND	1.28	1.59	6	21
Supplemental Parameters																							
Total Dissolved Solids	mg/L	656	662	620	600	646	710	662	554	503	503	537	557	525	380	474	564	494	445	-	-	-	-
Total Suspended Solids	mg/L			<u></u>	-		-												11	21	<5	<4	<4

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested ( # ) Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 13

## ANALYTICAL SUMMARY TABLE MONITORING WELL MW-09DB

PARAMETER	HAUTE	10/25/00	10/24/01	10/30/02	10/00/02	10/01/04	1/11/06	09/28/06	11/27/07	10/09/08	11/18/09	11/09/10	11/08/11	11/15/12	11/12/13
Quarterly Parameters	UNITS	10/25/00	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/28/06	11/2//0/	10/07/08	11/18/09	1,1/09/10	11/00/11	11/13/12	11/12/13
Nitrogen, Ammonia	mg/L	0.11	1.45	0.14	0.85	<0.05	0.11	0.082	<0.05	0.094	0.082	0.221 <sup>8</sup>	0.123	<0.2	<0.2
Arsenic, Dissolved	mg/L	<0.005	<0.005	< 0.005	< 0.005	<0.005	< 0.005	<0.005	<0.005	< 0.003	<0.003	-	-	-	-
Arsenic, Total	mg/L		-				-		<0.005	< 0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Annual Parameters	,,								-0.05		40.01				
Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05		<0.01			8	- B
Aluminum, Total	mg/L	-0.005	-0.005	<0.005	<0.005	٠, ٥, ٥, ٥	-0.005	-0.001	<0.05	0.436 < 0.001	0.011 <i>5</i> <0.001	<0.01	<0.02	<0.05 <sup>8</sup>	<0.05 <sup>8</sup>
Antimony, Dissolved Antimony, Total	mg/L mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001 <0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	<0.005	-	-	-	-
Cobalt, Total	mg/L	-	-[	-	•	-	-	-	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L	0.038	<0.02	0.04	<0.020	<0.020	0.035	0.0312	<0.01	0.0444	0.0596	-	-	-	-
Manganese, Total	mg/L							-	<0.01	0.0542	0.0612	0.065	0.0561	0.083	0.091
Nickel, Dissolved	mg/L	<0.05	0.0541	<0.05	<0.05	<0.05	<0.05	<0.005	0.0231 0.0219	< 0.005 < 0.005	<0.005 <0.005	<0.005	<0.006	<0.002	<0.002
Nickel, Total Benzene	mg/L ug/L	<5	<5	<5	- <5	<5.	<5	- <1	<1	< 1	<0.003	<1	<1	<0.002	<1:
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.03	<0.011
Five Year Parameters															
TAL Inorganics	4						,_				00.7				
Chloride Cyanide, Total	mg/L mg/L	-			•	•	18 <0.005				23.6 <0.005			-	1
Nitrate-Nitrite	mg/L	]		]	-	-	<0.003	_		]	0.0248	]		_]	]
Sulfate	mg/L	-		-	-	-	24	-	-	_	51.5	-	_	-	-
Barium, Dissolved	mg/L	-	-	-	-	-	<0.2	-	-	-	0.0465	-	-	-	-
Beryllium, Dissolved	mg/L	-	-	-	-	-	<0.001	-	-	-	<0.0002	-	-	-	-
Cadmium, Dissolved	mg/L	-	-	-	-	-	<0.0005	-	-	-	<0.0002 87.2	•	-	-	-
Calcium, Dissolved Chromium, Dissolved	mg/L mg/L	]				-	91.7 <0.005	[]	-	]	<0.001			]	]
Copper, Dissolved	mg/L	-	_	-1			<0.025	-	-	-	< 0.001			-1	
Iron, Dissolved	mg/L	-	_	-[	-	-	0.58	-	-	-	0.566		-	-	-
Lead, Dissolved	mg/L	-	-	-	-	-	<0.003	-	-	-	0.000234	-	-	-	-
Magnesium, Dissolved	mg/L	-	-	-	-	-	28.7	-	-	-	28.1	-	-	-	-
Mercury, Dissolved Potassium, Dissolved	mg/L mg/L	_	-		•	•	<0.0002 <5	-	_	_	<0.0002 1.3	-		-	1
Selenium, Dissolved	mg/L	_	_}	]			<0.005	]	_	_	<0.002	-	-	_	-1
Silver, Dissolved	mg/L	-	-	-		-	<0.0005	-	-	-	< 0.0001	-		-	-
Sodium, Dissolved	mg/L	-]	-	-	-		16.4	-	-	-,	10.6	-	-	-	-
Thallium, Dissolved	mg/L	-	-	-	•	-	<0.002	•	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved Zinc, Dissolved	mg/L	- 1	-	-	-		<0.02 <0.02	-	-	-	<0.002 <0.004	-	-	-	1
Barium, Total	mg/L mg/L	]	]	]	-	-	\0.02 -	]		]	0.0568		]	_	_
Beryllium, Total	mg/L	-	-	-	-	-	-1		-	-	<0.001	-	-	-	-
Cadmium, Total	mg/L	· -	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-1
Calcium, Total	mg/L	-	-	-1	-	-	-	-	-	-	92.8	•	-	-	-
Chromium, Total	mg/L	-	-1	-	-	-	-	-1	-	-	<0.002 <0.005	-	-	-	-
Copper, Total Iron, Total	mg/L mg/L	]	]	]	]		].			-	0.679			]	]
Lead, Total	mg/L	_	-		-		_		_	-	< 0.001		-	-	_[
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	28.8	-	-	-	-
Mercury, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-
Potassium, Total	mg/L	-	-	-	-	-	-	-	-	-	1.52	•	-	-	-
Selenium, Total Silver, Total	mg/L mg/L	-	-	-	-	•	-	-	_ [	-	<0.005 <0.0005	•	•	-	<u>[</u>
Sodium, Total	mg/L mg/L		]	]	]		]	]	_		10.9	-		]	1
Thallium, Total	mg/L	.	-	_	-	_	_	.	_		<0.001	-		-[	-∦
Vanadium, Total	mg/L	-	-[	-	-	-	-	-	-		<0.005	-	-	-	
Zinc, Total	mg/L	-	-	-		-	-	<u> </u>			<0.0045		-	-	
TCL VOCs* TCL SVOCs*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCL Pesticides*	ug/L ug/L	]		]		_	ND ND	[	<u>.</u>		ND ND			-	
TCL PCBs*	ug/L	.	-]	]			ND	_]	_		ND		_		]
Field Parameters															
pH	s.u.	7.38	9.44	7.65	<i>7</i> .81	7.56	7.45	7.75	8. <i>7</i>	6.86	6.97	7.39	7.2	6.82	7.32
Conductivity	umhos/cm	617	579	546	562	580	573	625	785	659	698	712	697	727	639
Temperature eH	°C millivts	14.9	14.9 43	11.5	12 39	10.8	10.2	10.5 111	10.4 -98	12	11.2 -59	10.7 -94	12.1	9 -97	8.3
Dissolved Oxygen	millivis mg/L	2.13	4.48	]	0.6		]	2.09	1.93	-66 1.31	0.95	0.81	-64 0.97	-7/	-51 O
Turbidity	NTU		-	_	-	_]		-	2	108	68	1	6	1	10
Supplemental Parameters															
Total Dissolved Solids	mg/L	381	339	316	314	295	289	283	388	369	534	-	-	-	-
Total Suspended Solids	mg/L	-			<u>-</u>	<u></u>	<u> </u>			-	<5	<5	7	5	<4

- (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.
  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.
  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.
- - Only those parameters reported at or above the laboratory practical quantitation limit are listed.
- (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested
- (#) Duplicate sample
  (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 14

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-10SG

Antender Language (Barbard Company)  Antender La		T	1/2/2	* 0 / 0 4 / 0 *	70/00/00		20/01/24		22/22/24	11/07/07	10/00/00		11/00/10	11/07/11	11/14/10	11/11/10
Nilsegen, France   mg/L   15   177   0.72   1.70	PARAMETER Annual Parameters	UNITS	10/25/00	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/28/06	11/27/07	10/09/08	11/17/09	11/08/10	11/07/11	11/14/12	11/11/13
Availed Standard mg/L		ma/l	1.55	1.71	0.02	1 12	1.24	0.85	1.21	0.124	1.37	1.11	1.648	2.63	1.7	1.0
Avenity minds																'' <u>'</u>
Avambure, members   mg/L	Arsenic, Total		-	-	-	-	-	-	-				<0.003	< 0.003	<0.005	<0.005
Section   Sect	Aluminum, Dissolved		<0.1	<0.1	<0.1	0.233	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01	-	-	-	-
wheterey, hand may all all and a second seco	Aluminum, Total	mg/L	_	-	-	-	_	-	-	0.702	0.675	0.443	2.27	0.521	0.64 <sup>8</sup>	1.3 <sup>B</sup>
Canaba, Demonster with the control of the control o	Antimony, Dissolved		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001	-	-	-	-
Cabox   Total	Antimony, Total	mg/L	-	-	-	-	-	-	-	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
magnesis, Bushed mg/L	Cobalt, Dissolved		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005				-	-	-	-
Managements   Teach   Managements   Manage	Cobalt, Total			-		-	-	-		1		i i	<0.005	<0.005	<0.001	<0.001
Reside Classification			0.124	0.102	0.099	0.184	0.117	0.135	0.119	)				-	-	
Seeker   Front   Fro			ر م م د	-0.05	-0.05	-0.05	-0.05	<0.05	-0.005				0.137	0.129	0.13	0.15
New Process			\0.03	<b>~0.03</b>	\0.03	\0.03	<0.05	<0.05	<0.003				<0.007	-0.00s	<0.002	<0.002
Virty   Chinekies			< 5	< 5	<5	< 5	- <5	< 5	<1							
1.2-00Hermons-2-Oktoroprogresses						I										
District Americans   Distric	I -															1
Tab hastomatics   mg/A	Five Year Parameters	1														
Cyanodia, Florida   September   Cyanodia, Florida   Septembe	TAL Inorganics							1	i							
Strings   Stri	Chloride	mg/L	-	-	-	-1	-	34	-	-	-	55.8	-	-	-	-
Solitate mg/L  Solita	Cyanide, Total	mg/L	-	-	-	-	-		-	-	-		-	-	-	-
Salistine mg/L  Salistine mg/L	Nitrate-Nitrite		-	-	-	-	-		-	-	-		-	-	-	-
Sear	Sulfate	mg/L	-	-	-	-	-		-	-	-		-	-	-	-
Combining Dissolved mg/L	Barium, Dissolved		-	-	-	-	-		-	•	•		-	-	-	•
Calcham, Dissolved mg/L	•		-	-	-	-	-		-	-	•		-[	-	-	-
Chemine, Disorberd mg/L	l · · · · · · · · · · · · · · · · · · ·		-	-	-	-	-		-	•	-		-	•	-	•
Copper_PistonSeed   mg/L			-	-	-	-	-		-	-	-1		-	-	-	1
Transplant   Tra				_		-	-		- [	-	_			_	-	]
Leady, Distributed   mg/L			]				-		_}				_]	_	_	
Magneshing Dissolved   mg/L			]		- 1		_		]					_		]
Meterory, Dissolved   mg/t	'		_	_		_1	_		_	-			_	_	_	_
Potasshum, Dissolved mg/L	I = -			-	-	-	_		_	-	-		_	-		_
Selenkum, Discolved  mg/L  mg/	Potassium, Dissolved		-	-	-	-1	-		_	-	-		-	-	-1	_
Sodium, Dissolved   mg/L	Selenium, Dissolved		-	-		-	-[	<0.005		-	-		-	-	-	-
Maillam, Total   mg/L	Silver, Dissolved	mg/L	-	-		-	-	<0.0005	-1	-	-	<0.0001	-	-	-	-
Vanodump   Issolated   mg/L	Sodium, Dissolved	mg/L	-	-	-	-	-	20.1	-	-	-	33	-	-	-	-
Time, Dissolved	Thallium, Dissolved		-	-	-	-	-	1	-	-	-		-	-	-	-
Androing Total   Margillan, Margillan,	Vanadium, Dissolved		-	-	-	-	-		-	-1	-		-[	-	-	-
Sery Mum, Total   mg/L			-	-	-	-	-	<0.02	-	-	-		-	-	-	-
Code   Code	· ·		-	-	-	-	-	-	-	-	-,		-	-	-	-
Calcium, Total   mg/L			-	-	-	-1	-	-	-	-1	-		-	-	-	-[
Chromium, Total mg/L			-	-	- 1	-	-	-	-	-	-		-1	-1	-	-
Copper, Total			_	_ [			]		- [	[	-			_	_	_
Internation   mg/L			]	]		- 1	]	]	]	]	_		]	_		]
Lead, Total   mg/L			_	_	_]	.]	_	_	_[	_	_					_
Magnesium, Total   mg/L	Lead, Total		-	-	-1	-	· .	-	-	-	-		-	-	-	-
Mercury, Total   mg/L	Magnesium, Total		_	- <b> </b>		.		-	.	-	-				-	_]
Pelassim, Total mg/L	Mercury, Total		-	-	-	.		-	-	-	-		-	-	-	_
Silver, Total   mg/L	Potassium, Total	mg/L	-	- <b> </b>	- <b> </b>	-	-	-	-1	-	-		-	-	-	-
Sedium, Total   mg/L	Selenium, Total	mg/L	-	-	-	•	-	-	-	-	-		-	-	-	-
Condition   mg/L	Silver, Total		-	-	-	-	-	-	-	-	-		-	-	-	-[
Vanadium, Total mg/L			-	-	· -[	-	-	-	-]	-	-		-	-	-	-
Zinc, Total mg/L	-		-	-	-	-	-	-	-	-	-		-	-	-	-
CL VOCs*			-	-	-	-	-	-	-	-	-		-	-	-	-
CL Pesticides*			<del>-</del>	-	<del></del> -		-	- LIP					-	-	-	
CCL Pesticides*					-[	]	-	1	-]	-	-		-	-	1	-
CL PCBs*			] []		_[	]	[		<u> </u>	<u> </u>		- 1	]	]		
S.U.   7.44   6.76   6.71   7.55   7.55   7.29   7.47   7.64   7.17   6.54   6.62   6.85   5.66   6.97				][	[]	3	_]		]	]	]	1	.]	]	.]	
S.U. 7.44 6.76 6.71 7.55 7.55 7.29 7.47 7.64 7.17 6.54 6.62 6.85 5.66 6.97 7.00		79/2	<del>-</del>	_					7			1,5	1		1	
Conductivity	pH	s.u.	7.44	6.76	6.71	7.55	7.55	7.29	7.47	7.64	7.17	6.54	6.62	6.85	5.66	6.97
Femperature	Conductivity				1											11
## millivits 6 -108 - 76 - 5 92 -36 82 - 30 -8 - Dissolved Oxygen mg/L 3.52 5.68 - 2.99 - 4.16 3.66 3.63 8.32 - 4.66 3.87 - Furbidity NTU 84 77 211 - 360 44 -  For plemental Parameters For Intel Dissolved Solids mg/L 472 382 381 430 414 371 330 511 468 484	Temperature												9			ll ll
Furbidity         NTU         - <th< td=""><td>eH .</td><td>millivts</td><td></td><td>-108</td><td>-1</td><td></td><td>-</td><td>- </td><td>5</td><td></td><td></td><td>82</td><td>-</td><td></td><td></td><td>-  </td></th<>	eH .	millivts		-108	-1		-	-	5			82	-			-
Furbidity         NTU         -         -         -         -         -         -         -         84         77         211         -         360         44         -           Supplemental Parameters         Fotal Dissolved Solids         mg/L         472         382         381         430         414         371         330         511         468         484         -<	Dissolved Oxygen		3.52		-		-	-	4.16			1	-		3.87	-
Fortal Dissolved Solids         mg/L         472         382         381         430         414         371         330         511         468         484         -<	Turbidity			<b>-</b>	-				ا	84	77	211		360	44	
Total Suspended Solids mg/L	<u>Supplemental Parameters</u>				丁	Т			7			7	· 7			
	Total Dissolved Solids		472	382	381	430	414	371	330	511	468		-	-	-	-
	Total Suspended Solids	mg/L	-		]	-	-		-!		-	<5	12.5	21.5	66	79

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested ( # ) Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 15

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-15SB

PARAMETER	UNITS	10/25/00	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/28/06	11/27/07	10/09/08	11/18/09	11/09/10	11/08/11	11/15/12	11/12/13
Annual Parameters		10,20,00	. 412-101	10/00/02	10/07/03	10/21/04	1/11/00	07/20/00	11/2/  0/	10/07/00	11/10/07	11/07/10	11/00/11	11/13/14	11/12/13
Nitrogen, Ammonia	mg/L	3.26	3.29	4.04	2.58	2.07	2.29	2.32	2.41	4.52	4.69	4.7 <sup>8</sup>	4.13	3.4	3.5
Arsenic, Dissolved	mg/L	0.0304	0.0164	0.0573	0.0289	0.0074	0.0278	0.0358	0.0355	0.0607	0.0591	-	-	-	-
Arsenic, Total	mg/L	-	-	-	-	-	-	-	0.0334	0.0873	0.0614	0.058	0.0609	0.056	0.074
Aluminum, Dissolved	mg/L	0.84	<0.1	<0.1	<0.1	<0.1	0.151	<0.05	<0.05	< 0.02	<0.01	-		-	-
Aluminum, Total	mg/L	-	-	-	-	-	-	-	<0.05	1.56	<0.02	0.0105	<0.02	<0.05 <sup>B</sup>	<0.05 <sup>B</sup>
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	< 0.001	<0.001	-	-	-	-
Antimony, Total	mg/L						-		<0.001	< 0.001	<0.001	<0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved Cobalt, Total	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	
Manganese, Dissolved	mg/L mg/L	0.304	0.204	0.211	0.152	0.148	0.161	0.132	<0.005 0.145	< 0.005 0.16	<0.005 0.152	<0.005	<0.005	<0.001	<0.001
Manganese, Total	mg/L	0.554	0.204	0.211	0.132	0.140	0.101	0.132	0.152	0.208	0.168	0.136	0.14	0.14	0.16
Nickel, Dissolved	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	< 0.005	<0.005	-	-	"-	31.5
Nickel, Total	mg/L		-	-	-	-	-	-	<0.005	0.00526	<0.005	<0.005	<0.006	<0.002	<0.002
Benzene	ug/L	<5	<5	<5	<5	<5	<5	<1	<1	< 1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	< 1	1.02	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.03	<0.011
Five Year Parameters								İ							ŀ
TAL Inorganics Chloride	mg/L						50				54.0				
Cyanide, Total	mg/L mg/L	[	_[	•		]	<0.005	_	]	_	56.9 <0.005	-	-		-
Nitrate-Nitrite	mg/L		]			]	<0.003	]	]		0.0416	-		]	][
Sulfate	mg/L	.	_			.]	44	.]	.]		41.6	_		]	_
Barium, Dissolved	mg/L	-	-	-	_		<0.2	-	.	.	0.108	-	-	.	
Beryllium, Dissolved	mg/L	-	-	-	_		<0.001	-	.	-	<0.0002		-	-	-
Cadmium, Dissolved	mg/L	-	-	-	-	-	<0.0005	-	-	-	<0.0002	-1	-	-	-
Calcium, Dissolved	mg/L	-	-	-	-	-	106	-	-	-	90.6	-	-	-	-[
Chromium, Dissolved	mg/L	-	-	-	-	-	<0.005	-	-	-	<0.001	-	-	-	-
Copper, Dissolved	mg/L	<del>-</del>	-	-	-	-	<0.025	-	-	-	<0.001	-	•	-	-
Iron, Dissolved Lead, Dissolved	mg/L mg/l	-	-	-	-	-	2.24 <0.003	-	-	-	2.52 0.000224	-	-	-	-
Magnesium, Dissolved	mg/L mg/L	[	]		•		30.2	-		-	28.3	•		•	-
Mercury, Dissolved	mg/L	-		]		]	<0.0002	]	.]	]	<0.0002	]	]		
Potassium, Dissolved	mg/L	-	-		_		5.6	-	_	_	7.91		_	_	
Selenium, Dissolved	mg/L	-	-	-			<0.005	-		-	<0.002		_	_	-
Silver, Dissolved	mg/L	-	-	-[	-	-	<0.0005	-	-	-	<0.0001	-	-		-
Sodium, Dissolved	mg/L	-	-	-	-	-	35	-	-	-	35	-	.	•	-
Thallium, Dissolved	mg/L	-	-	-	-	-	<0.002	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved	mg/L	-	-	-	-	-	<0.02	-	-	-	<0.002	-	-	-	-
Zinc, Dissolved Barium, Total	mg/L mg/L	-	•	-	1	-	<0.02	1	-	-	<0.00 <i>5</i> 0.118	-	-	-	-
Beryllium, Total	mg/L	]		]		_		- [	_	_	<0.001;			<u> </u>	
Cadmium, Total	mg/L		_]	-			]	]	_		<0.0004	]		]	
Calcium, Total	mg/L	.	-	-		-	-	-	-	-	94.8	_	-	-	_
Chromium, Total	mg/L	-	-	-	-	-	-	-]	-	-	<0.002	-	-	-	.
Copper, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-
Iron, Total	mg/L	-	-	-	-	-	-	-	-	-	2.86	-	-	-	-
Lead, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-
Magnesium, Total Mercury, Total	mg/L mg/L	-}	-	-	-	-	•]	-	-	-	29.3	-	-	-	-
Potassium, Total	mg/L mg/L	<u> </u>	<u>-</u>	-	]	-	-	1	-	-	<0.0002 9.25	-	-	-	-
Selenium, Total	mg/L	]	]	_	_1	_	_	[]	_]		<0.005		_		1
Silver, Total	mg/L	]	-		-]	]		]	]	]	<0.0005	]	]		
Sodium, Total	mg/L	-	-	-	-[	-	-		-	-	36.3	_	_	-	_]
Thallium, Total	mg/L	-	-]	-	-	-	-	-	-	-	<0.001	-	-		-
Vanadium, Total	mg/L	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-
Zinc, Total	mg/L	-			-		-	-	-	-	0.00863				
TCL VOCs* TCL SVOCs*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCl. SVOCs* TCl. Pesticides*	ug/L	-	-	-	-	-	ND	-	-	-	ND	-	-	-	-
TCL PCBs*	ug/L ug/L	-	1	-	-	-	ND ND	1	-	-	ND ND	-	-	-	-
Field Parameters	ug/L	-	-				עא		-	-	עא		-	-	<del></del>
pH	S.U.	7.22	7.28	7.37	7.33	7.6	7.31	7.71	6.77	6.77	6.69	7.34	7.25	6.76	6.28
Conductivity	umhos/cm	782	693	740	742	761	769	824	980	827	891	899	905	874	821
Temperature	°c	15.4	15.1	12.2	12.5	11.4	10.8	10.3	10.5	12.1	11.2	10.5	11.8	10.7	7.4
еН	millivts	27	-115	-	20	-		-59	-107	-97	-92	-130	-26	-127	-99
Dissolved Oxygen	mg/L	2.65	2.17	-	2.7	-	-	4.79	1.33	1.51	0.27	1.05	0.99	0	. 0
Turbidity	NTU					-		-	9	174	60	2	1	1	19
Supplemental Parameters		<u></u>			,							1			
Total Dissolved Solids	mg/L	433	384	398	426	398	383	382	467	447	570			-	.
Total Suspended Solids	mg/L	<u> </u>	-	<u></u> -1	<u> </u>			-	-		12	6	8	<4	<4

- NOTES:

  (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

- Only those parameters reported at or above the laboratory practical quantitation limit are listed.
- (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested
- (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 16

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-16DB

PARAMETER   UNITS   10/24/00   10/24/01   10/30/02   10/09/03   10/21/04   1/11/06   09/28/06   11/27/07   10/09/08   11/18/09   11/09/10   1	0.135 - <0.003	11/15/12 <0.2	11/12/13
Nitrogen, Ammonia   mg/L   0.12   <0.05   0.08   <0.05   <0.05   <0.05   <0.05   <0.05   <0.05   <0.05   <0.05   <0.05   <0.05   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005	-	<0.2	
Arsenic, Dissolved     mg/L     < 0.005	-	<0.2	
Arsenic, Total mg/L	<0.003		0.54
Aluminum, Dissolved   mg/L   <0.1   <0.1   <0.1   <0.1   <0.1   <0.05   <0.05   <0.02   <0.01   -	-0.003	<0.005	<0.005
		~0.003	\0.003
	0.0289	<0.05 <sup>B</sup>	<0.05 <sup>B</sup>
Antimony, Dissolved mg/L <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 -	0.0269	<b>~0.03</b>	\0.03
Antimony, Total mg/L <0.001 <0.001 <0.001 <0.001 <0.001	<0.001	<0.002	<0.002
Cobalt, Dissolved mg/L <0.01 <0.01 <0.01 <0.01 <0.01 <0.005 <0.005 <0.005 -	-	-	
Cobalt, Total mg/L	<0.005	<0.001	<0.001
Manganese, Dissolved   mg/L   0.026   0.036   0.035   <0.02   <0.02   0.03   0.0279   0.0187   0.0338   0.0317   -	-	-	-
Manganese, Total   mg/L   -   -   -   -   -   0.0257   0.0433   0.0341   0.0304	0.0313	0.031	0.039
Nickel, Dissolved   mg/L   <0.05   <0.05   <0.05   <0.05   <0.05   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005   <0.005	-	-	-
Nickel, Total   mg/L   -   -   -   -   -   <0.005   <0.005   <0.005   <0.005	<0.005	<0.002	<0.002
Benzene   ug/L   <5   <5   <5   <5   <1   <1   <1   <1	<1	<1	<1
Vinyl Chloride	<1	<1	<1
1,2-Dibromo-3-Chloropropane ug/L <1 <1 <1 <1 <1 <0.02 <0.02 <0.02 <0.02 <0.02 Five Year Parameters	<0.02	<0.031	<0.011
TAL Inorganics			
Table	_	-	.
Cyanide, Total mg/L <0.005 <0.005		-	]
Nitrate-Nitrite   mg/L < 0.02 < 0.02 -	_		] ]
Sulfate   mg/L 21 25.3 -	_		.
Barium, Dissolved mg/L 0.0399 -	-	-	-
Beryllium, Dissolved   mg/L <0.001  <0.0002  -	-	-	-
Cadmium, Dissolved   mg/L <0.0005 <0.0002	-	-	] -
Calcium, Dissolved   mg/L   -   -   89.1   -   76.5   -	-	-	i -i
Chromium, Dissolved   mg/L   -   -   -   <0.005   -   -   <0.001   -	-	-	-
Copper, Dissolved   mg/L   -   -   -   <0.025   -   -   <0.001   -	-	-	-
tron, Dissolved   mg/L   -   -   -   0.57   -   -   0.51   -	-	-	-
Lead, Dissolved   mg/L   -   -   -   <0.003   -   -   0.000227   -	-	-	-
Magnesium, Dissolved   mg/L 28 25.7 -	-	-	-
Mercury, Dissolved   mg/L <0.0002 <0.0002 -	-	-	-
Potassium, Dissolved mg/L <5 1.33 -	-	-	-
Selenium, Dissolved mg/L <0.002 <0.002 <0.002	-	-	-
Silver, Dissolved   mg/L   -   -   <0.0005   -   -   <0.0001   -	-1	-	-
Sodium, Dissolved   mg/L 16.2 13.8 -   Thallium, Dissolved   mg/L <0.0002 <0.0002 -     <0.0002 -     <0.0002 -     <0.0002 -     <0.0002 -     <0.0002 -     <0.0002 -     <0.0002 -     <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002	-1	-	1
Vanadium, Dissolved mg/L <0.002 <0.002 -	-	-	]
Zinc, Dissolved mg/L <0.002 <0.004 -	]	_	
Barium, Total mg/L 0.0459 -	_]	-	]
Beryllium, Total mg/L	_	-	_
Cadmium, Total mg/L	-	-	_
Calcium, Total mg/L 81.7 -	-	-	-
Chromium, Total   mg/L   -   -   -   -   -   -   -   <0.002   -	-	-	-
Copper, Total   mg/L   -   -   -   -   -   -   <0.005   -	-	-	
ron, Total   mg/L   -   -   -   -   -   -   -   0.623   -	-	-	-
Lead, Total   mg/L   -   -   -   -   -   -   -   -   -	-	-	-
Magnesium, Total   mg/L   -   -   -   -   -   -   27   -	-1	-	-
Mercury, Total   mg/L   -  -  -  -  -  -  -  -  -  -  -  <0.0002  -	-	-	-
Potassium, Total mg/L 1.57 -	-	-	-
Selenium, Total   mg/L   -  -  -  -  -  -  -  -  -  -  -  <0.005  -	-	•	-
Silver, Total mg/L <0.0005	-	-	-
Sodium, Total mg/L	-	-	-
Thallium, Total mg/L	-	-	-
Vanadium, Total mg/L <0.005 - Zinc, Total mg/L <0.005 -	-	•	-
		-	ļ <u>-</u>
ICL VOCs*         ug/L         -         -         -         ND         -         -         ND         -         -         -         ND         -         -         -         ND         -         -         -         -         ND         -         -         -         -         ND         -	-	•	-
<u>ICL SYOCS*                                    </u>	.1	-	-
TCL PCBs*	]	_	]
Field Parameters			
pH S.U. 7.24 7.53 7.5 7.14 7.53 7.42 7.79 6.96 6.96 6.98 7.5	7.21	6.9	8.63
Conductivity umhos/cm 614 530 536 566 570 568 613 811 593 639 651	672	671	616
Temperature °C 15.1 15.7 11.7 11.9 10.9 10.6 10.7 10 11.7 11.2 10.5	11.7	10.2	7.9
eH millivts 12 76 - 42 84 -66 13 -69 -116	-82	-116	
Dissolved Oxygen mg/L 2.8 6.86 - 3.2 4.71 5.13 1.81 0.73 0.84	0.97	0	0
Turbidity NTU 1 15 54 8	2	1	8
Supplemental Parameters Supplemental Parameters			
Total Dissolved Solids mg/L 362 305 319 336 321 294 284 376 334 485 -	-	-	_
Total Suspended Solids mg/L 6.5 5	5	5	<4

( - ) Not Tested
( # ) Duplicate sample
(ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

<sup>(</sup>TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

### TABLE 17

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-16SB

Description   Process				10/01/02	40/00/00	70/00/00 I	******	1/11/04	22/22/24	11/07/07	10/0//00	11/10/00	11/00/10	11/00/11	1.4.5/10	11/10/10
Nasagan, Krammore   may/L   2.08   0.08   0.09   0.005   0.0	PARAMETER Annual Parameters	UNITS	10/24/00	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/28/06	11/27/07	10/06/08	11/18/09	11/09/10	11/08/11	11/15/12	11/12/13
Amenic Possible of way 1		mg/L	7.58	6.96	9.96	6.06	6.69	6.29	5.7	5.58	4.51	3.69	3.64 <sup>B</sup>	3.13	2.6	2.6
Amenic print of mg/A  Action 1 do 1 do 1 do 1 do 1 do 1 do 1 do 1													-	-	-	-
Manfales   Manfales	Arsenic, Total	mg/L	-	-	-	-i	-	-	-	<0.005			<0.003	<0.003	<0.005	<0.005
Memory, Inclinated   mg/L	Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	< 0.02	<0.01	-	-	l :	-
Managery Total   mg/L	Aluminum, Total	mg/L	-	-	-	-	-1	-	-				0.0117	<0.02	<0.05 <sup>8</sup>	<0.05 <sup>8</sup>
Cashe, Proposed   mg/L   cash   color   colo	-		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001							
Casable Total   mag/L			-0.01	-0.01			-001	-001	-0.005				<0.001	<0.001	<0.002	<0.002
Mesagements   Description			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005				<0.005	<0.005	<0.001	<0.001
Meangement   Teach   mag/A			0.112	0.257	0.097	0.109	0.192	<0.02	0.0928				10.005	-		
Notes,   Desirouley   Mary	-		-	-	-	-	-	-	-				0.0781	0.0794	0.081	0.091
Bearenie   vg/L   c  c  c  c  c  c  c  c  c  c  c  c  c			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	< 0.005	<0.005	-	-	-	[ - <u> </u>
Virgo Cloridade   wg/L   c1   c1   c1   c1   c1   c1   c1   c	Nickel, Total	mg/L	-	-	-	-	-	-	-				ı		1	
1,2 Defenses - Collegergrapes   vg/L   <   <   <   <   <   <   <   <   <		ug/L			1			i i								<1
Bix Year Foremeters	-	ug/L									· ·					<1. <0.011
Math between   Math		Ug/L	'	~1					<0.02	<0.02	< 0.02	<b>~0.02</b>	<0.02	<0.02	<b>\0.029</b>	
Coloride						ļ										
Cyanide, Total   mg/L		mg/L		-	ا۔	_ _	_	58	-	_	-	58				
Nitrote-Nitrote				-	-	-	-			-	-					] .
Barlim, Disolved mg/L	Nitrate-Nitrite	mg/L	-	-	-	-	-		-	-	-			-		-
Baryllim, Disabved mg/L			-	-	-	-	-		-	-	-		-		-	-∥
Cadminn, Dissolved   mg/L	•		-	-	-	-	-		-	-	-		-	•	-	-
Calcium, Disolved mg/L	• •		-	-	-	-	-	1	-	-	•		-	•	•	1
Chrominer, Dissolved   mg/L				.]	]	_[				_	-				.	
Copper   Disolved   mg/L		mg/L	-	-	.	-1	_]		-	-	_		_	-	_	
Ten, Dissolved   mg/L			-	-	-	-1	-		-	-	-		-	-	-	-
Magnesium, Dissolved   mg/L			-	-	-	-	-	1.55	-	-	-		-	-	-	-1
Mercury, Dissolved   mg/L			-	-	-	-	-	1	-	-	-		-	-	-	-[
Potosisking Disolved   mg/L			-	-	-[	-	-		-	-	-		-	-	-	-
Selenium, Dissolved   mg/L			-	-	-	-1	-	1	-	-	-		-	-	-	]
Silver, Dissolved   mg/L	-			]	]	]	]		]	]	_		_	_	]	]
Sadium, Dissolved   mg/L	· ·		_]	_	_		-		_	-	-		_	-		_
Thollimp, Dissolved   mg/L			-1	-	-	-	-		-	-	-		-	-	-	-
Zinc, Dissolved	Thallium, Dissolved		-1	-	-	-	-		-	-	-		-	-	-	-
Barlem, Total   mg/L	- 1			-	-	-	-		-	-	-		-	-	-	-
Beryllium, Total   mg/L	· ·		-	-[	-	-1	-	<0.02	-	-	-		-	-	-	-
Cadelium, Total				-[	_		[]	-	_		-		]	_	_	]
Calcium, Total   mg/L	-			]	]	]	]	_	_	_	-		_		_	
Chromium, Total   mg/L			_	-1	-	-1	-	-	-	-	-		-	-	-	
Copper, Total   mg/L	-		-1	-	-	-	-	-	-	-	-	<0.002	-	-	-	
Lead, Total   mg/L			}	-	-	-	-	-	-		-		-	-	-	
Magnesium, Total   mg/L			-	-	-1	-	-	-	-	-	-		-	-	-	-
Mercury, Total   mg/L			-	-]	-	-	-	-	-	-	-		-	-	-	-
Potassium, Total   mg/L		. 1		_1		<u>.</u> ]		-		[]	-					
Selenium, Total   mg/L			.]	-		.]		-,		_]	_		_	.		
Silver, Total   mg/L			-	-	-	-	-	_:	-	-	-		-	-		.
Thallium, Total mg/L	Silver, Total		-	-	-	-	-	-	-	-	-		-	-	-	-
Vanadium, Total mg/L			-	-	-	-	-	-	-	-	-		-	-	-	-
Zinc, Total   mg/L	-		-	-	-	-	-	-	-	-	-		-	-	-	-
ICL YOCs*			-	-	-	-	-	-	1	-	•		•	•	•	
ICL SYOCs*         ug/L         -         <		un/L		<del>-</del>		-		NU							-	
TCL Pesticides*   Ug/L				-]	.]	.]	.]		.]	-	_		-1	_		_
TCL PCBs*				-		ا۔	-		.	-	-		-	_		4
pH         S.U.         7.13         7.25         7.26         7.31         7.41         7.23         7.43         6.68         6.72         6.77         7.32         7.07         6.78           Conductivity         umhos/cm         1015         887         935         870         878         872         940         880         878         934         921         941         892           Temperature         °C         15.5         15.3         11.8         11.5         11.4         11.3         10.6         10.9         12.1         11.4         10.8         11.8         11.3           eH         millivts         18         -60         -         56         -         -         -83         -87         -69         -70         -116         -83         -114           Dissolved Oxygen         mg/L         2.07         5.02         -         2.02         -         -         5.11         1.12         1.46         0.55         0.89         0.93         0	TCL PCBs*		_			-						ND		<u>-</u>	-	
Conductivity   Umhos/cm   1015   887   935   870   878   872   940   880   878   934   921   941   892		_			ļ											
Temperature °C 15.5 15.3 11.8 11.5 11.4 11.3 10.6 10.9 12.1 11.4 10.8 11.8 11.3 eH millivts 18 -60 - 56 83 -87 -69 -70 -116 -83 -114 Dissolved Oxygen mg/L 2.07 5.02 - 2.02 5.11 1.12 1.46 0.55 0.89 0.93 0	•															7.33
eH millivts 18 -60 - 56 83 -87 -69 -70 -116 -83 -114 Dissolved Oxygen mg/L 2.07 5.02 - 2.02 5.11 1.12 1.46 0.55 0.89 0.93 0																828
Dissolved Oxygen mg/L 2.07 5.02 - 2.02 5.11 1.12 1.46 0.55 0.89 0.93 0					11.8		11.4	11.3								8.3 -72
							.]	_]								-72
			,						-	2			4	1	1	
Supplemental Parameters																
Total Dissolved Solids   mg/L   556 534 528 502 496 439 360 570 524 616	Total Dissolved Solids		556	534	528	502	496	439	360	570	524		-	-	-	-
Total Suspended Solids   mg/L   -   -   -   -   -   7   <5   5   <4		mg/L	<u></u>						<u> </u>	-		7	<5	5	<4	<4

- (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.
   (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.
   (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

- Only those parameters reported at or above the laboratory practical quantitation limit are listed.
- (B) Parameter was reported above the PQL in field blank during this event.

- ( ) Not Tested (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 18

### ANALYTICAL SUMMARY TABLE MONITORING WELL MW-17B (FORMERLY RESIDENTIAL WELL RW-07)

PARAMETER	UNITS	02/03/00	02/03/00#	4/19/00	4/19/00#	04/19/00	04/19/00#	07/20/00	10/24/00	04/18/01	10/24/01	10/30/02	10/30/02#	10/21/04	1/11/06	09/28/06	09/28/06#	11/27/07	10/09/08	08/27/09	8/27/09#	11/18/09	11/09/10	11/08/11	11/15/12	11/12/13
Quarterly/Annual Parameters		,,		.,,	.,,							, ,		, , .	, ,		.,,			, ,	<del>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </del>			.,,		,
Nitrogen, Ammonia	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.17	0.3	0.31	0.2	<0.05 <0.005	<0.05 <0.005	<0.05 <0.005	<0.05	< 0.05	< 0.003	- 0 000	0.069	0.24 <sup>8</sup>	0.082	<0.2	0.41
Arsenic, Dissolved Arsenic, Total	mg/L mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005 -	<0.005 <0.005	< 0.003 0.0117	< 0.003	< 0.003 < 0.003	<0.003 <0.003	<0.003	<0.003	<0.005	<0.005
Aluminum, Dissolved	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	< 0.02	< 0.01	< 0.01	<0.01	-		-	-
Aluminum, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	0.0675	< 0.01	< 0.01	<0.01	<0.01	<0.02	<0.05 <sup>8</sup>	<0.05 <sup>B</sup>
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	-co.co.	-0.001	-0.000	-0.000
Antimony, Total Cobalt, Dissolved	mg/L mg/L	<0.01	<0.01	<0.01	- <0.01	- <0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	- <0.005	<0.005	<0.001 <0.005	< 0.001 < 0.005	< 0.001 < 0.005	< 0.001 < 0.005	<0.001 <0.005	<0.001	<0.001	<0.002	<0.002
Cobalt, Total	mg/L	.	-	-	-	-		-	-		-	-	-		-	-	-	<0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.001	<0.001
Manganese, Dissolved	mg/L	0.034	0.034	0.042	0.04	0.042	0.04	<0.02	0.04	0.091	<0.02	0.028	0.029	<0.02	0.024	0.0333	0.0334	0.0759	0.101	0.0307	0.0291	0.106				-
Manganese, Total Nickel, Dissolved	mg/L mg/L	<0.05	<0.05	<0.05	- <0.05	<0.05	<0.05	<0.05	<0.05	- <0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	0.22 <0.005	0.435 < 0.005	0.103 < 0.005	0.103 < 0.00 <i>5</i>	0.162 <0.005	0.128	0.144	0.11	0.15
Nickel, Total	mg/L	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	<0.005	< 0.006	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.002	<0.002
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	< 1	-	-	<1	<1	<1	<1	<1
Vinyl Chloride 1,2-Dibromo-3-Chloropropane	ug/L ug/L	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 - <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <0.02	<1 <0.02	<1 <0.02	< 1 < 0.02		•	<1 <0.02	<1 <0.02	<1 <0.02	<1 <0.029	<1 <0.011
Five Year Parameters	ug/ L		``							- \						V0.02	<b>\0.02</b>	10.02	V 0.02			₹0.02	V0.02	V0.02		
TAL Inorganics																								-		}
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	68.3	-	-1	-	-
Cyanide, Total Nitrate-Nitrite	mg/L mg/L	:			]			:1		]	:	]		]	<0.005 0.56			]	]			<0.005 0.0473	]	]	]	
Sulfate	mg/L	-	]	]	.]	_]	_	-	-	-[	.]		_	-]	37		-]	-]	-	-		62	-]	-]	.]	-
Barium, Dissolved	mg/L	-	-	-	-1	-	<del>.</del>	-	-	-	-	-	-	-	<0.2	-	-	-	-	-	-	0.0927	-	-	-	-
Beryllium, Dissolved Cadmium, Dissolved	mg/L mg/L		-	-	]	-			]			-	-	-	<0.001 <0.000 <i>5</i>	1	-	-			•	<0.0002 <0.0002	-	-		1
Calcium, Dissolved	mg/L	]		-		-	_		-	.]		-	-	-	98		-	_	_		-	105	.]	]	- 1	-]
Chromium, Dissolved	mg/L	i -	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.001	-	-	-	-
Copper, Dissolved	mg/L	-	-	-	-1	-	-	-	-	-	-	-	-	-	<0.025	-	-1	-	-	-	-	<0.001	-	-		-
Iron, Dissolved Lead, Dissolved	mg/L mg/L	]	•	]	]	-			]		1	-		]	<0.10 <0.003		- 1			]	_]	1.1 <i>4</i> <0.0002		- 1		1
Magnesium, Dissolved	mg/L	-		-		-	_	-1	-			-	-	-	25.2	-	-	-	-	-	-	31.3	_	-	-	-
Mercury, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	<0.0002	-	-	-	-
Potassium, Dissolved Selenium, Dissolved	mg/L	-	-	-	1	-	-	-	-	-	-	-	-	-	<5 <0.005	-	-	-	-	-1	-	1.32 <0.002	-	-	-	-
Silver, Dissolved	mg/L mg/L	]			]			]	_	]	]	.]	]	]	<0.005	_		]		]	]	<0.0001	]			
Sodium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	38.6	-	-	-	-	-	-	29.9	-	-	-	-
Thallium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	-	-	<0.0002	-	-	-	-
Vanadium, Dissolved Zinc, Dissolved	mg/L mg/L			]		-	]	-	-	]				1	<0.02 <0.02					]		<0.002 <0.005	_		1	
Barium, Total	mg/L		_	-		-	-	-	-		-	-	-		-	-	-	-	-	-	-	0.113	-	_	-]	-1
Beryllium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-1
Cadmium, Total Calcium, Total	mg/L	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	- 1	-	-	<0.0002 116	. 1	-	-	1
Chromium, Total	mg/L mg/L		]		]	_]		-	-,	]	-]	_]	-]	]	-	]	]	_]	]	]	]	<0.002	]		-	]
Copper, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	<0.005	-	-	-	-
iron, Total	mg/L	-	-	-	-1	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	-	-	6.05	-	-	-	-
Lead, Total Magnesium, Total	mg/L mg/L	]		_				_]		- 1	_	- 1	_	- [		]	.]		_	- 1	]	<0.001 33.4	]		]	
Mercury, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-
Potassium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.56	-	-	-	-
Selenium, Total Silver, Total	mg/L mg/L	:			]					]	<u> </u>	_	]		]		<u> </u>			]		<0.005 <0.0005	]			<u>-  </u>
Sodium, Total	mg/L	-	-			-	-	-	-	.	-	-			.]	-	-	-	-	-	-	31.3	_	.]	]	_
Thallium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-
Vanadium, Total Zinc, Total	mg/L mg/L		•		<u>:</u>	-		<u> </u>	-		-				-		<u>-</u>	_		[]	-	<0.005 0.00411	-		-	1
TCL VOCs*	ug/L		-	-						-	-				ND		-					0.00411 ND	<del></del>		-	<del></del>
TCL SVOCs*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	-	-	-	-
TCL Pesticides* TCL PCBs*	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND ND	-	-	-	-	-	-	ND ND	-	-	-	-
Field Parameters	ug/L		-		-	-	-		-	-					שא							אט			-	——— <del>-</del>
рН	s.u.	7.56	7.56	7.55	7.55	7.55		7.36	7.73	7	9.39	9.42	9.42	7.54	7.44	7.8	7.8	6.86	6.82	7.28	7.28	6.57	7.35	7.13	6.84	7.9
Conductivity	umhos/cm	664	664	677	677	677	677	545	734	734	246	217	217	710	711	774	774	926	765	841	841	924	927	993	896	268
Temperature eH	°C millivts	10.3	10.3 -30	11.1 -33	11.1 -33	11.1 -33	11.1 -33	12.1 -24	15	12 43	16.1 45	10.6 148	10.6	10.5	10	9.3 177	9.3 1 <i>77</i>	10.6 -20	11.3 -75	10.9 24	10.9 24	10.8	9.6 -103	11.6 -83	10.1 -82	7.9 -222
Dissolved Oxygen	mg/L	0.53	0.53	2.12	2.12	2.12	2.12	1.21	2.16	6	2.52	1.5	-]	_]	]	4.26	4.26	8.02	1.46	11.6	11.6	<0.1	1.14	1.01	0.11	5.18
Turbidity	NTU					-				-	-				<b>-</b>			84	100	ND	ND	135	18	12	15	16
Supplemental Parameters			2,2	222	2.40	222	2.0	200	,,,		,,,,	,,,	,,,	,,,,	250	346	252	.,_		200						
Total Dissolved Solids Total Suspended Solids	mg/L mg/L	357	368	332	342	332	342	320	440	<u> </u>	115	135	131	135	352	369	352	417	475	399 34	410 24	481 61.5	13	17.5	22	10
NOTES.	ıng/L	<del>'</del>		<u> </u>					-1	-1	<u>-1</u>				-,					341		01.0	19	17.3	441	10

NOTES:
(TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.
(TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.
(\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

(B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested (#) Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 19

### ANALYTICAL SUMMARY TABLE RESIDENTIAL WELL RW-04

Sample Manuel Sample Sa	PARAMETER	UNITS	10/28/99	2/03/00	4/19/00	04/19/00	07/20/00	10/24/00	04/18/01	10/24/01	10/30/02	10/09/03	10/21/04	1/11/06	09/28/06	11/27/07	10/09/08	10/09/08 #	11/18/09	11/09/10	11/08/11	11/08/11#	11/15/12	11/15/19#	11/12/12	11/12/13#
Franches March 1968 1969 1969 1969 1969 1969 1969 1969			10/20/22	2/00/00	1,1.7,00	0.17.17.00	- 07/20/00	10/21/00	0 1,1 10,0 1	10/21/01	10/00/02	10/07/00	10/21/04	1/11/00	07/10/00	11,27,07	10/07/00	10/07/00#	11/10/07	11/02/10	11/00/11	11/00/11#	11/19/12	11/13/12#	11/12/13	11/12/13#
Franches March 1968 1969 1969 1969 1969 1969 1969 1969	Nitrogen, Ammonia	mg/L	0.23	0.15	0.26	0.26	0.4	<0.05	1	1.09	0.73	0.53	0.22	0.21	0.396	0.209	0.094	0.112	0.211	0.184 <sup>B</sup>	0.146	0.139	0.2	<0.20	<0.2	<0.2
Name Consult  100  100  100  100  100  100  100  1	11	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005					-		-	-	-	-	-
Markel Markel Mark 1948 1948 1949 1949 1949 1949 1949 1949			-0.1	-0.1		-0.1	-0.1			-0.1	-0.1	ر	-	-	-					<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
MATHOR MATHER WAS SCRIPT OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE WAS STREET OF THE MATHER WAS STREET OF THE WAS STREET OF THE MATHER WAS STREET OF THE MATHER WAS STREET OF THE WAS S	1		``'	<b>\0.1</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>\0.1</b>	\O.1	<b>~0.1</b>	×0.1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<0.1	<0.1	<0.1	<0.1	<0.05			,	l l							- 8
STATES MATERIAL STATES AND STATES	•		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001			I		<0.01	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05
Cache Tenders	1		-	-	-	-	-	-	-	-	-	-	-0.005		-			I		<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002
Margane Might   1960	II	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	< 0.005	< 0.005	<0.005	-	-	-	-	-	-	-
Marganes   Marganes	ĮĮ -									-		-								<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Med Submord	11 -		0.082	0.052	0.054	0.054	0.059	<0.02	0.056	0.059	0.063	0.056	0.051	0.06	0.0522					0.0575	0.0622	0.0417	0044		0.047	0.077
Mood Stand   Stand	• •		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005					0.03/3	0.0622	0.0017	0.064	0.063	0.067	0.077
Processor   Proc	Nickel, Total		-	-	-	-	-1	-	-	-	-	-	-	-1	-					<0.005	<0.006	<0.006	<0.002	<0.002	<0.002	<0.002
Second Content of the Content of t	Benzene		· ·	1					-	-			- 1	- 1					*1	-	l I		- 1			- 11
SECTION PROMISES  PROMISES							1		-	- 1				I					1	- 1						- 11
Management   Man		Ug/L													₹0.02	<u> </u>	\ 0.02	< 0.02	\0.02	<b>~0.02</b>	<0.02	<0.02	<0.03	<0.03	<0.011	<0.011
Service, Friend	•	}																						ľ	ľ	
Mass-Statistics	II.		-	-	-	-	-	-	-1	-	-	-	-	· ·	-	-	-	-		•	-		-	-	-	-
Signer Si			-	-	-	-	-	-	-	-1	-1	-	-		-	-	-	-		•	-	-	-	-	-	-
Hearth-Stander				-	-	-	<u>-</u>	-	-	-	-	-	-		-	-	-	1		-	-	-	-	-	-	-
######################################	- 11		:1	]	]		]	]	]		]		]		-	-]			1		<u> </u>	.]		[		1
Signatury Displayed	Beryllium, Dissolved		.	-	.	-	ا۔	-	-	_	-	_	-]		-]	-]	.]	_		.]	] [	.]	]			]
Seminary State   Semi	-	mg/L	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	<0.0002	-	-	-	-	-	-	-
Companished   mg/L	II		-	-	-	-	-	-	-1	-	-	-	-		-	-	-	-1		-	-	-	-	-		-
Marcon   M	-	1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		•	-	-	-1	-	-	-
Month Control   Map					1		1	_[	]		[]	_	_		[]	- 1	-	1		-		-	-[	-	-	-
Magneting   Magn			<u>-</u>	-	-	_	_[	-		_	-1	]				.]		]		]	_	]		]		
Parallel   Parallel	Magnesium, Dissolved		-	-	-	-	-	-	-	-	-	-	-		-	-	-			-	-	-	ا۔	-	_	- 1
Statishing Statished mg/H	1		-	-	-	-	-	-	-	-	-	-	-		-[	-1	-	-	- 1	-	-	-	-	-	-	-
See   Company	11		-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-		-	-	-	-	-	-	-
States   Description   States   Description   States   Description   D	I)		] [	_		-]	-	-		1	-	-1	-		-	-1	-	-		-	-	-	-	-	-	-
The film of probabed mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	II		[ ]	-	.]	_]	]	_	]	1	.].					]	_	]		]		]	1	1	]	
Time District   mg/L	11		-	-	-	-	-		-	-i	-	-				-	_	_		-	-1	_]	_	_		]
South, Total   Sout	Vanadium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	<0.002	-	-	-	-	-	-	-
Regrime, Note   mg/L	11 -		-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-		-	-	-	-	-	-	-
Cachium, Total   mg/L	III	_ · · · ·	[]	- 1		-1	-		-	-	-	-[	-	-	-	-	-	-		-	-	-	-	-	-	-
Calcium, Total   mg/L	III *		]		1		]	-	]		- [	]	.]	]		- [	]	1	1	-		1		[]	_[	1
Copper, Total   mg/L	Calcium, Total	1	-	-	-	-	-	-	-	-	-	-1	_	_	_	-		-		_	_]	-1		1	]	]
Information   Information	Chromium, Total	mg/L	-	-	-	-	-		-	-	-	-	-	-	-	-	-				-	-	-	-	-	-
Sead, Total   mg/L			-	-	-	-	-	-	-	-1	-	-	-	-	-	-	-	-1		-	-	-	-	-	-	-
Magneting Total   Magneting	11 -		]	-	-1	-			_	- 1	-	-	- 1	-1	-	-	-	-1		-	-	-	-	-	-[	-
Marcery, Total   mg/L	II.		] ]	- [	]	-	]	_	]		1	]	]	]	<u>-</u> ]	]	]			-		]		1	- 1	
Policy   P	Mercury, Total	1 1	-	-		-	-	-	_	-	.]	-[	_	-	_	-]	-	_]		-,	.]	]	]	.]	]	
Silver, Total   mg/L	Potassium, Total	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.82	-	-	-	-	-	-	.
Sodium, Total mg/L	II		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-∥.
Thollum, Total mg/L			]	[]			<u>-</u>			-	1	-	-	-	-	-	-	-		-	-1	-	-	-	-	-
Vanadium, Total   mg/L	Thallium, Total			.]	-	.]	]	.]	]	]		]	_]	]		]	.]	_		.]		]	]		]	1
TICL YOCK*	Vanadium, Total	mg/L	.	-	-		-	-		-	-	-	-	-	-	.]	-]	-]		-]	-	]	.]	.]	-[	
ICL Pedicides   ug/L	Zinc, Total		ļ	-													-									
ICL Pesticides* ug/L			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-[	-
TCLPC6s*   Vg/L   -   -   -   -   -   -   -   -   -			]	]		_[	-	- 1	-	-	1	1	-		-	-	-	-		-	-	-	-	-	-	-
Field Parameters   Ph				-1	]	]	]	.]		]	]	.]				]	[]	_		]	]		_1	[]	]	1
Conductivity without with production of the conductivity with production of the conduction of the conductivity with production of the conductivity with production of the conduction of the conductivity with production of the conduction of the conductivity with production of the conduction of the cond	Field Parameters												1							<del>- 1</del>						
Temperature C 12.8 13.5 12.5 12.5 15.1 14.8 15 12.6 11.5 13.2 11.5 10.6 11.7 8.2 12.1 12.1 12.4 11.6 12.3 12.3 10.3 10.3 12.3 12.3 eH millivis -21 -24 -33 -33 -1464 -27 2 24 -3 -3 -3 -4 -101 -19 -19 -19 -82 -82 -71 -71 Dissolved Oxygen mg/L 6.08 1.41 3.23 3.23 1.22 - 4 7.6 - 4.24 5.18 3.95 3.95 7.6 2.95 7.48 7.48 6.88 6.88 8.62 8.62 Turbidity NTU	pH								7																	6.95
eH	11 '												l II									935				832
Dissolved Oxygen mg/L 6.08 1.41 3.23 3.23 1.22 - 4 7.6 - 4.24 5.18 3.95 3.95 7.48 7.48 6.88 6.88 8.62 8.62 8.62 8.62 8.62 8.6	II -							14.8			11.5	13.2	11.5	10.6	11.7			12.1	12.4							12.3
Turbidity         NTU         - <th< th=""><th>112.1</th><th>1</th><th></th><th></th><th></th><th></th><th></th><th>]</th><th>-04</th><th></th><th>]</th><th>4.24</th><th>-</th><th></th><th>1</th><th></th><th></th><th>3 05</th><th>-4 7.6</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-71 8 43</th></th<>	112.1	1						]	-04		]	4.24	-		1			3 05	-4 7.6							-71 8 43
Supplemental Parameters         mg/L         -         402         406         468         492         -         413         378         378         458         414         366         475         501         524         632         -	Turbidity							:		/.5		7.27	.]	]	]					2.73	7.40	7.48	0.08	3	3	3
Total Suspended Solids mg/L	Supplemental Parameters																				•	<del></del>				
			-	402	406	406	468	492	-	413	378	378	458	414	366	475	501	524		-	-	-	-	-	-	-
	Total Suspended Solids NOTES:	J mg/L	-			-	<u> </u>	-				<u>_</u>	<u> </u>	-				<u> </u>	<5	<5	<5	<5	<4	<4	<4	<4

NOTES:
(TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.

<sup>(</sup>TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.

<sup>(\*)</sup> All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

Only those parameters reported at or above the laboratory practical quantitation limit are listed.

<sup>(</sup>B) Parameter was reported above the PQL in field blank during this event.

<sup>( - )</sup> Not Tested

<sup>(#)</sup> Duplicate sample

<sup>(</sup>ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### TABLE 20

### ANALYTICAL SUMMARY TABLE RESIDENTIAL WELL RW-06

PARAMETER	UNITS	11/2/99	2/03/00	4/19/00	04/19/00	07/20/00	07/20/00#	10/24/00	0/24/00#	04/18/01	04/18/01#	10/24/01	10/30/02	10/09/03	10/21/04	01/11/06	09/28/06	11/27/07	11/27/07#	10/09/08	11/18/09	11/09/10	11/09/10#	11/08/11	11/15/122	11/11/13 <sup>2</sup>
Quarterly/Annual Parameters																										
Nitrogen, Ammonia	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	0.219 <sup>B</sup>	0.521 <sup>8</sup>	0.113	-	-
Arsenic, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.002	-0.002	-	-
Arsenic, Total Aluminum, Dissolved	mg/L mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	- <0.1	<0.1	- <0.1	- <0.1	- <0.1	<0.1	- <0.1	- <0.1	<0.05	<0.005 <0.05	<0.005 <0.05	< 0.003 < 0.02	<0.003 <0.01	<0.003	<0.003	<0.003		]
Aluminum, Total	mg/L	\	-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	٠٠.٠	10.1	٠٠	``.		١٠٠٠.	``.	-		-	-	-	-	<0.05	<0.05	< 0.02	<0.01	<0.01	<0.01	<0.02	-]	-
Antimony, Dissolved	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	< 0.001	<0.001	-	-	-	-	-
Antimony, Total	mg/L	-							-									<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	-	-
Cobalt, Dissolved	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005 <0.005	<0.005 <0.005	< 0.005 < 0.005	<0.005 <0.005	<0.005	<0.005	<0.005	-	
Cobalt, Total Manganese, Dissolved	mg/L mg/L	0.036	0.047	0.05	0.05	0.037	0.038	0.046	0.05	0.062	0.064	0.028	0.037	0.042	0.051	0.076	0.0149	0.0248	0.0251	0.0156	0.0472	\0.005	-0.003	\0.003	-	]
Manganese, Total	mg/L	-	-	-		-	-	-	-	-	-	-	-	-	-	-		0.0237	0.0242	0.0151	0.0479	0.0176	0.0181	0.0673	_	
Nickel, Dissolved	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.006	<0.005	<0.005	< 0.005	<0.006	-	-	-	-	-
Nickel, Total	mg/L	-			ا .					-			-		- <5		_;	<0.005	<0.005	< 0.005 < 1	<0.0055 <1	<0.005	<0.005	<0.005	-	-
Benzene Vinyl Chloride	ug/L ug/L	<5 <1	<1 <1	<1 <1	<1 <1	<5 <1	<5 <1	<5 <1	<5 <1	<5 <1	<5 <1	<5 <1	<5 <1	<5 <1	<1	<5 <1	<1 <1	<1 <1	<1 <1	< 1	<1	<1 <1	<1 <1	<1 <1		_
1,2-Dibromo-3-Chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<	<1	<1	<1	<1	<1	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02		_
Five Year Parameters		i i																								
TAL Inorganics											ŀ						ŀ									
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89 <0.005	-	-	-	-	98 <0.005	-	-	-	-	-
Cyanide, Total Nitrate-Nitrite	mg/L mg/L			-	_	]		_[	<u> </u>	-]		]	[]	<u>-</u>	<u> </u>	<0.003	<u>:</u>	_[	]	<u>.</u> ]	0.0226			- 1	_	
Sulfate	mg/L	]	]		-		_	-		.]	]		]	.]	.]	63	.]	.]	.]	-]	65.8	_]	-	_]	_]	_]
Barium, Dissolved	mg/L	-	-		-	-	-	-1	-	-	-	-	-	-	-	<0.2	-	-	-	-	0.074	-	-	-	-	-
Beryllium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-]	-	-	<0.001	-	-	-	-	<0.0002	-	-	-	-	- [
Cadmium, Dissolved	mg/L	-	-	-	-	-	-	-[	-	-	-	-	-	-	-	<0.0005 132	-	-	-	-	<0.0002 112	-	-	-	-	-
Calcium, Dissolved Chromium, Dissolved	mg/L mg/L						]		]			]	]	[]		<0.005	]			]	<0.001		]	]	_	]
Copper, Dissolved	mg/L		-	_	-	]	- 1	-	-	-	_	_]		_	_	<0.025		-	-	.]	0.00908	_	-	.]	_	-
Iron, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1		-	-	-	<0.1	-	-	-	-	-
Lead, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.003	-	-	-	-	0.00112	-	-	-	-	-
Magnesium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.1	-	-	-	-	32.9	-	-	-	-	-
Mercury, Dissolved Potassium, Dissolved	mg/L mg/L		-	-	_								]	]	_	<0.0002 <5	1	]	1	1	<0.0002 1.92		-			
Selenium, Dissolved	mg/L				.]	- 1	]		]	]	]	- ]		_]	_	<0.005	]	_]	]	]	<0.002	.]			]	]
Silver, Dissolved	mg/L	-	-	-	-	-1	-	-	-	-		-	-	-	-	<0.0005	-	-	-	-	<0.0001	-	-	-	-	-
Sodium, Dissolved	mg/L	-	-	-		-	-	-	-	-	-	-	-	-	-	53.3	-	-	-	-	56.5	-	-	-	-	-
Thallium, Dissolved	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	<0.0002	-	-	-	-	-
Vanadium, Dissolved Zinc, Dissolved	mg/L		- 1	-	1		1		_						_	<0.02 <0.02	1	]	_		<0.002 <0.006			1	- [	1
Barium, Total	mg/L mg/L			]	]	_]	]	]	]	.]	_]		]		_	-0.02	]	]		_]	0.0788	]	_]		_[	
Beryllium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	-	<0.001	-	-	-	-	-
Cadmium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-		-	-	-
Calcium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-	-	-	-	-
Chromium, Total	mg/L		]	-	]				1				- 1	]	-				]		<0.002 0.0103			1		
Copper, Total Iron, Total	mg/L mg/L		]	]	]	]	.]	]		]	]	]	]	.]	]	.]	]	]	1	-	0.408	[]		]	]	
Lead, Total	mg/L	.		-	-	-	-		-	-	-	.	-	-	-	-	-	-	.	-	<0.001	-	-	-	-	-
Magnesium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.3	-	-	-	-	-
Mercury, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002 2.27	-	-	-	-	-
Potassium, Total Selenium, Total	mg/L mg/L				_[			]		_[_	]	]					]	]	]	]	<0.005	_[		]	]	
Silver, Total	mg/L	]		.]	.]	]	-	-	_	.]	.]		]	]	-	-	.]	- ]			<0.005	.]	]	.]	_[_	]
Sodium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.4	-	-	-	-	-
Thallium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-[	-
Vanadium, Total	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005 0.0145	-	-	-	-	-
Zinc, Total TCL VOCs*	mg/L ug/L														-	- ND					0.0145 ND			<del></del>		<u>-</u>
TCL SYOCs*	ug/L	.]		-]	.]	]	-	-		.]	]	]		- 1	.]	ND		.]		-	ND	-1	.]	-	-[	_]
TCL Pesticides*	ug/L	-	-	-	-	-	-1	-	-	-	-	-	-1	-	-	ND	-	-	-	-	ND	-	-	-	-	-
TCL PCBs*	υg/L	-	-			-						-	-			ND					ND		-			
Field Parameters		7.1	7.0	7,5	7.5	7.07	7 07		٠,	إر	_	7.5/	770	ار ـ	701	_,	7.02	ا م	9.05	7 02	4.07	7.50	7.50	7.00		i
pH Conductivity	S.U. umhos/cm	7.44 (1)	7.69 865	7.65 818	7.65 818	7.27 898	7.27 898	8.1 1009	8.1 1009	910	910	7.56 717	7.73 923	7.6 700	7.84 994	7.6 936	7.83 927	8.25 916	8.25 916	7.23 1120	6.97 1120	7.58 893	7.58 893	7.38 963	]	-
Temperature	°C	12.7	8.3	11.5	11.5	17.2	17.2	15	15	10	10	14.9	13.6	14.3	13.7	6.9	16.7	7.9	7.9	17.5	11.9	12.9	12.9	13	]	]
еН	millivts	-16	-37	-37	-37	-19	-19			139	139	152	-	147	-		-	160	160	55	69	-8	-8	40	-	-
Dissolved Oxygen	mg/L	1.82	3.38	2.12	2.12	1.98	1.98	-	-	10	10	9.51	-	6.1	-	-	-	7.11	7.11	3.31	8.53	6.39	6.39	5.4	-	-
Turbidity	NTU	ļ	· · ·															78	78	30	55	4	4	6		
Supplemental Parameters Total Dissolved Solids	me/i		175	121	121	E 40	E 14	541	E E 1		1	400	540	£3.4	550	535	503	544	523	497	727					
Total Suspended Solids	mg/L mg/L	]	475	436	436	548	546	341	551 -	]	]	489	560	534	550	335	503	544	523	627	737 <5	<5	<5	<5	]	· ]
Francisco dollar	· · · · · · · · · · · ·				-1	1						-1														

- NOTES:
  (TAL) Target Analyte List from Table 7-5 of the Remedial Action Quality Assurance Project Plan (WCC, 1996) (RA QAPP) for the Albion Landfill.
  (TCL) Target Compound List from Table 7-4 of the RA QAPP for the Albion Landfill.
  (\*) All TCL parameters listed on Table 7-4 of the RA QAPP were analyzed.

- Only those parameters reported at or above the laboratory practical quantitation limit are listed.

  (B) Parameter was reported above the PQL in field blank during this event.

  (2) Residential well not sampled, as residence was abandoned (11/08/12) or resident was not available to provide access (11/11/13).
- (1) Instrument malfunction, no reading available.
- ( ) Not Tested
- (#) Duplicate sample
- (ND) Non-detect, i.e. not reported at or above the laboratory practical quantitation limit.

### ALBION-SHERIDAN TOWNSHIP LANDFILL

### OPERATION AND MAINTENANCE MONITORING

### TABLE 21

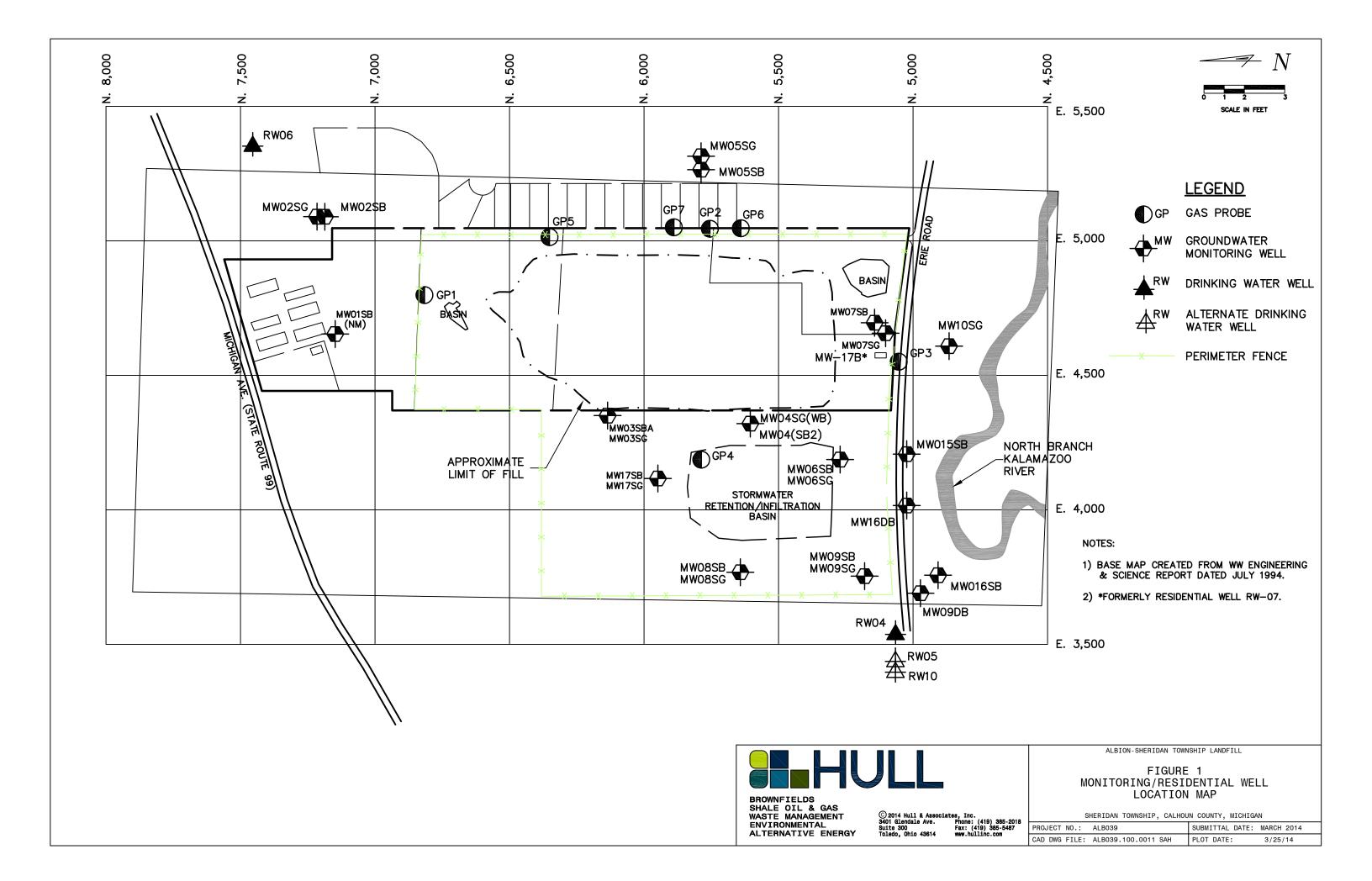
### SUMMARY OF GROUNDWATER ELEVATIONS IN MONITORING WELLS

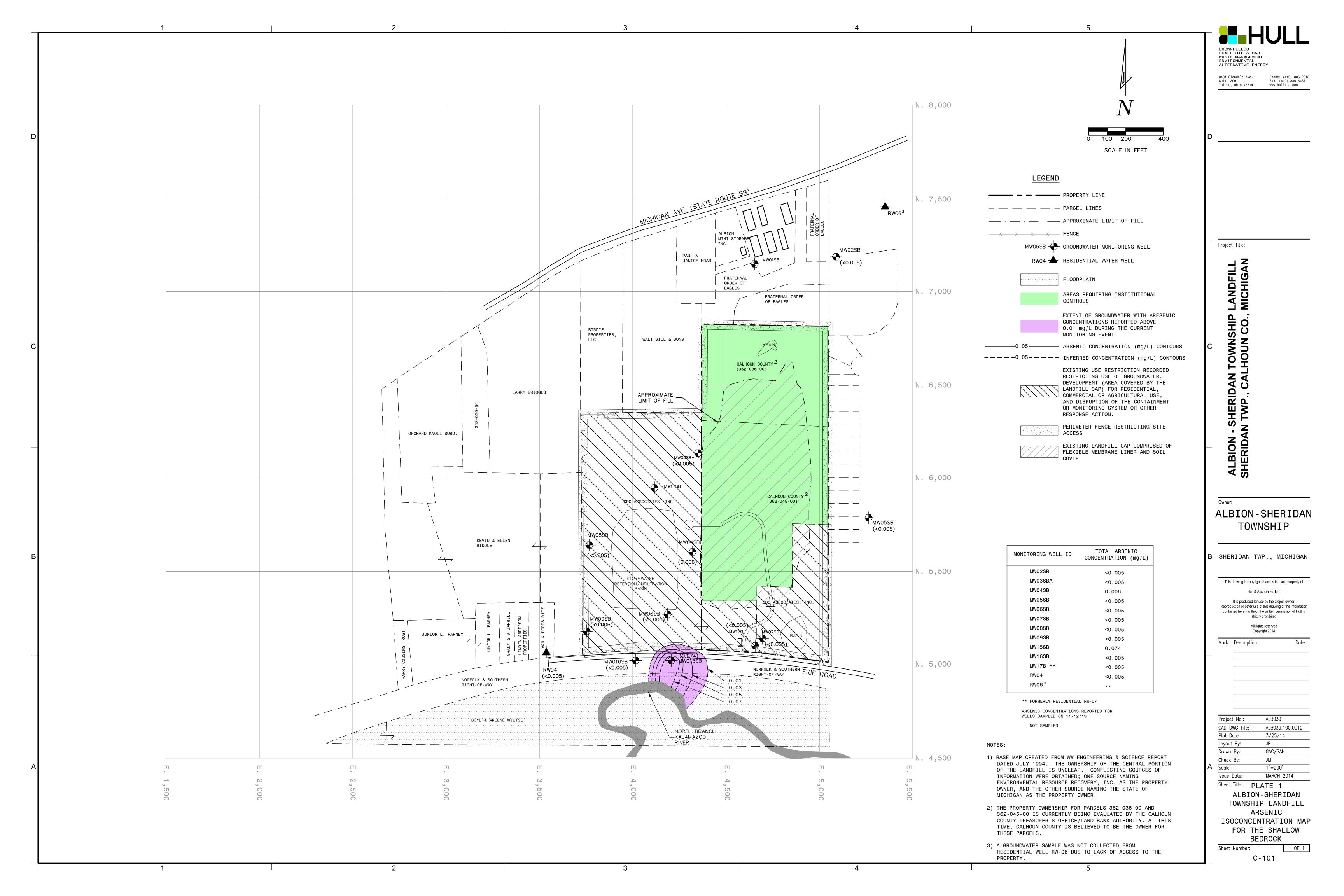
			Ship year	7.1.3		E .		É	50 Jan 12						I				
-MONITORING WELL I/D	10/27/99	1/25/00	2/19/00	7/20/00	10/24/00	01/24/01	10/23/01	10/29/02	10/8/03	10/20/04	01/10/06	09/27/06	11/26/07	10/7/08	11/17/09	14/8/10	11/07/11	11/14/12	111/111/119
UNCONSOLIDATED SATURATED																	· ·		
<u>UNIT</u>	İ																		Ì
MW01SG	982.36						950.97	951.05	949.68	950.97	949.66	949.78	949.99	952.68	952.90	952.42	952.31	951.46	951.89
MW02SG	949.61	949.22	948.84	949.80	949.66	949.38	951.10	950.96	949.64	951.10	949.78	949.89	950.06	952.64	952.88	952.43	952.33	951.50	951.88
MW03SG	946.63	946.63					948.16	947.33	946.64	948.16	947.15	947.02	947.17	948.73	948.74	948.40	948.47	947.86	948.34
MW04SG(WB)	946.07	945.93	945.81	946.52	946.43	946.27	947.51	946.32	946.56	947.51	946.56	946.48	946.65	947.90	947.89	947.62	947.66	947.16	947.59
MW05SG	948.69				948.96		950.34	949.32	948.40	950.34	949.19	948.92	949.19	951.47	951.32	950.81	950.91	950.04	950.62
MW06SG	946.92						950.83	947.59	947.25	950.83	948.09	946.99	947.44	951.39	949.22	948.00	948.91	947.70	948.83
MW07SG	946.49			948.04	946.92		948.83	947.43	946.97	948.83	947.53	946.70	947.00	949.41	948.56	947.85	948.29	947.45	948.17
MW08SG	955.30						948.18	945.73	954.83	948.18	954.44	954.85	954.72	956.94	955.80	955.72	955.82	954.73	956.15
MW09SG	945.69	945.56	945.52	946.19			947.02	945.99	946.13	947.02	945.88	946.02	946.13	947.27	947.15	946.92	946.96	946.50	946.97
MW10SG	945.68				946.16		946.11	946.09	945.64	946.11	946.05	945.93	942.22	946.75	946.69	946.63	946.66	947.35	946.80
MW11SG								949.13	949.13										
MW12SG								950.72	950.72										
MW13SG								949.49	949.49										
MM17SG	]						954.38			954.38	952.26		952.71	955.92	954.59	947.89	954.37	952.83	954.34
DEEP BEDROCK UNIT	ĺ																		
MW04DB	945.24	945.88	945.66	946.51		946.18	947.81	947.94	947.17	947.81	946.76	946.76	946.90	948.91	948.98	948.67	948.68	948.08	948.50
MW16DB					946.27		947.06	946.96	946.43	947.06	946.51	946.43	946.48	947.89	947.89	947.71	948.16	947.33	947.71
SHALLOW BEDROCK UNIT																			
MW01SB					948.40	948.65	950.40	950.41	949.19	950.40	949.15	949.23	949.45	951.94	952.22	951.75	951.64	950.88	951.28
MW02SB	948.99	948.60	948.22	949.08	948.84	948.76	950.50	950.35	949.10	950.50	949.15	949.28	949.50	951.98	952.23	951.78	951.72	950.92	951.29
MW03SBA	946.16	946.00	945.90	946.60	946.50	946.35	947.64	946.98	946.26	947.64	946.67	946.60	946.74	948.04	948.03	947.71	947.73	947.24	947.66
MW04SB(SB2)	946.07	945.91	954.80	946.51	946.44	946.28	947.51	947.09	946.55	947.51	946.58	946.49	946.65	947.88	947.88	947.59	947.64	947.13	947.56
MW05SB	946.95		946.43	947.25	947.18	946.98	948.57	947.82	947.02	948.57	947.46	947.46	947.65	949.66	949.68	949.39	949.39	948.69	949.12
MW06SB	946.08	945.93		946.45	946.38	946.26	947.49	946.97	946.50	947.49	946.56	946.48	946.62	947.88	947.86	947.59	947.65	947.07	947.57
MW07SB	946.02	945.85	945.75	946.55	946.48	946.33	947.54	947.05	946.59	947.54	946.44	946.52	946.69	947.92	947.95	947.65	947.69	947.19	947.63
MW08SB	946.10		945.82	946.57	946.48	946.32	947.56	947.06	946.54	947.56	946.65	946.55	946.71	947.96	947.95	947.67	947.73	947.22	947.67
MW09SB	946.06	945.90	945.78	946.42	946.21	946.19	947.41	946.94	946.48	947.41	946.49	946.41	946.57	947.81	947.79	947.52	947.57	947.08	947.51
MW15SB				946.17	946.10	945.95	947.05	946.52	946.04	947.05	946.21	946.11	946.22	947.30	947.22	946.99	947.06	946.63	947.08
MW16SB					946.14	946.02	947.47	946.57	946.12	947.47	946.20	945.15	946.28	947.29	947.28	947.05	947.09	946.67	947.10
MW17SB							947.55			947.55	946.63	946.56	946.71	947.94	947.93	947.66	947.70	947.19	947.65
WEATHERED BEDROCK UNIT				1															
MW01WB							950.45	950.43	949.19	950.45	949.17	949.27	949.43	951.98	952.22	951.77	951.70	950.91	951.27
MW02WB	949.33	948.95	948.57	949.43		949.08	950.78	950.64	949.37	950.78	949.49	949.61	949.80	952.34	952.57	952.13	952.06	951.24	951.62
MW03WB	946.08	946.08					947.48	946.80	946.34	947.48	946.58	946.51	946.66	947.81	947.89	947.65	947.67	947.16	947.59
MW04WB(SB1)	946.07	945.93	945.82	946.52		946.26	947.51	947.15	946.66	947.51	946.56	946.47	946.64	947.88	947.89	947.61	947.65	947.16	947.60
MW06WB	945.70						946.94	946.44	946.02	946.94	946.08	946.00	946.13	947.16	947.15	946.89	946.96	946.53	946.96
MW07WB	946.01			946.54			947.56	947.04	946.55	947.56	946.65	946.53	946.71	947.95	947.96	947.66	947.69	947.22	947.67
MW08WB	946.14					946.40	947.82	947.29	946.62	947.82	946.76	946.75	946.87	948.56	948.49	948.22	948.28	947.70	948.21
MW09WB	945.72	945.58	945.52	946.11		940.40	947.00	946.60	946.16	947.82	946.78	946.05	946.17	947.24	948.49	946.94	947.01	947.70	948.21

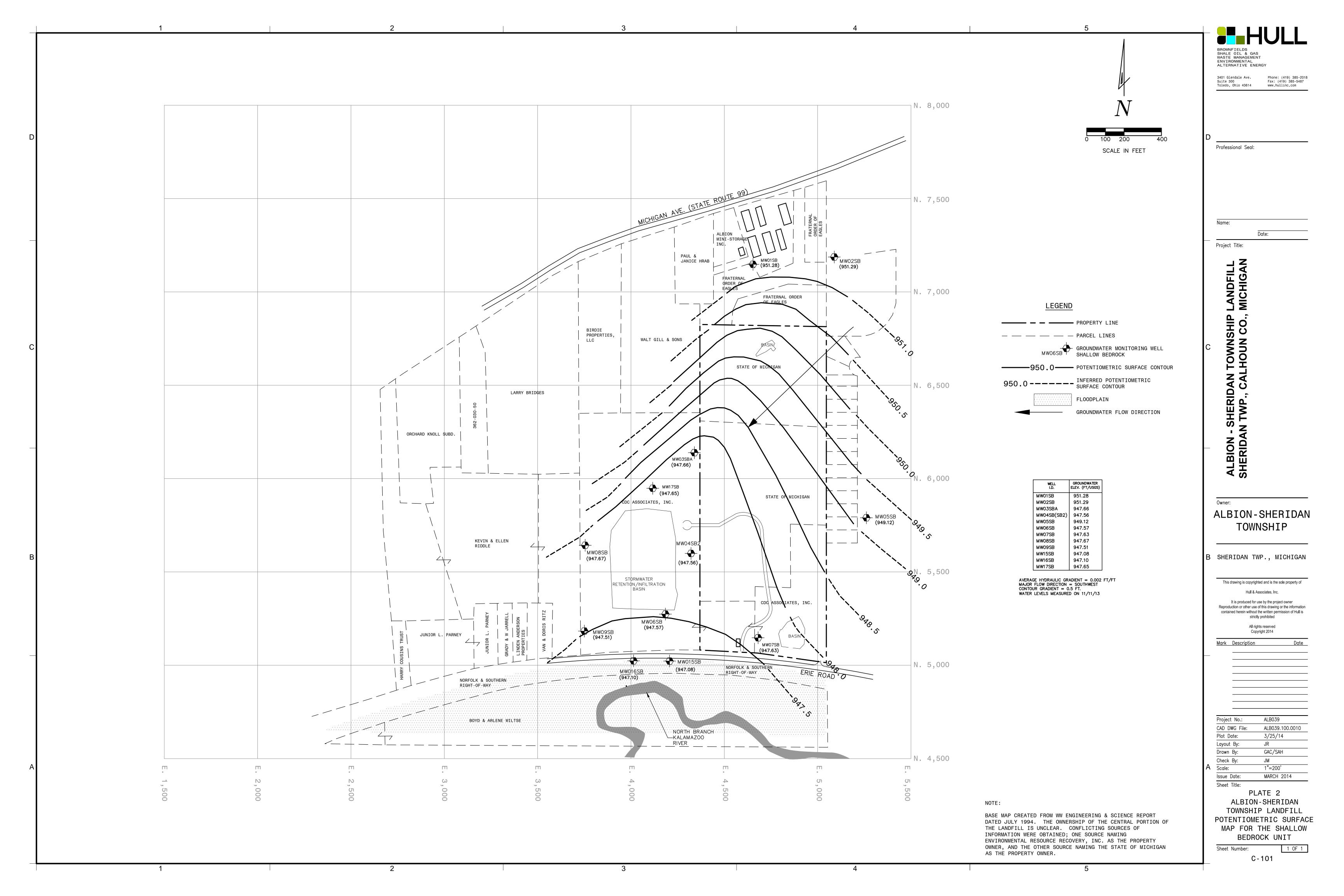
Notes: 1) All groundwater elevation data are in ft./USGS.
2) Fluctuations listed represent maximum variations of ground-water elevations recorded on consecutive sampling events.
(-) Not Available

**FIGURES AND PLATES** 

HULL & ASSOCIATES, INC. TOLEDO, OHIO

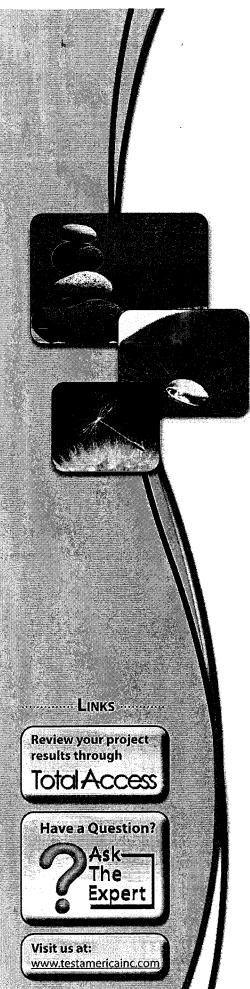






#### **APPENDIX A**

Laboratory Analytical and Quality Control Reports including Chain of Custody and Request for Analysis Forms



# <u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

## **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

TestAmerica Job ID: 240-31386-1

Client Project/Site: Albion-Sheridan Landfill

For:

Hull & Associates, Inc. 3401 Glendale Ave Suite 300 Toledo, Ohio 43614

Attn: Ryan Murphy

Authorized for release by: 11/27/2013 4:19:07 PM

Josh McKinney, Project Manager II (937)294-6856 josh.mckinney@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill

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#### **Definitions/Glossary**

Client: Hull & Associates, Inc.

RPD TEF

TEQ

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1



























Qualifiers	
Metals	
Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
General Chem	istry
Qualifier	Qualifier Description
٨	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
п	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

#### **Case Narrative**

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1



Job ID: 240-31386-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-31386-1

Comments

No additional comments.

Receipt

The samples were received on 11/13/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.2° C, 1.2° C, 1.4° C, 1.8° C and 2.6° C.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8011: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals

Method(s) 6020: The continuing calibration verification (CCV) for Manganese associated with batch 110475 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. ALB039:FB2:W111213 (240-31386-23)

No other analytical or quality issues were noted.

Field Service / Mobile Lab

No analytical or quality issues were noted.

**General Chemistry** 

Method(s) 350.3: The continuing calibration verification (CCV) for ammonia associated with batch 110118 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

**VOA Prep** 

No analytical or quality issues were noted.

#### **Method Summary**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	TAL CAN
160.2	Solids, Total Suspended (TSS)	MCAWW	TAL CAN
350.3	Nitrogen, Ammonia	MCAWW	TAL CAN
Field Sampling	Field Sampling	EPA	TAL CAN

#### Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396























## **Sample Summary**

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

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_ab Sample ID	Client Sample ID	Matrix	Collected	Received
240-31386-1	ALB039:MW2SG:G111113	Water	11/11/13 09:03	11/13/13 09:1
240-31386-2	ALB039:MW2SB:G111113	Water	11/11/13 09:28	11/13/13 09:1
240-31386-3	ALB039:MW3SBA:G111113	Water	11/11/13 09:59	11/13/13 09:1
240-31386-4	ALB039:MW4SG:G111113	Water	11/11/13 10:27	11/13/13 09:1
240-31386-5	ALB039:MW4SB:G111113	Water	11/11/13 10:55	11/13/13 09:1
240-31386-6	ALB039:MW8SB:G111113	Water	11/11/13 11:28	11/13/13 09:1
240-31386-7	ALB039:MW9SB:G111113	Water	11/11/13 12:03	11/13/13 09:1
240-31386-8	ALB039:MW6SB:G111113	Water	11/11/13 12:38	11/13/13 09:1
240-31386-9	ALB039:MW10SG:G111113	Water	11/11/13 12:53	11/13/13 09:1
240-31386-10	ALB039:MW5SG:G111113	Water	11/11/13 13:29	11/13/13 09:1
240-31386-11	ALB039:MW5SB:G111113	Water	11/11/13 13:55	11/13/13 09:1
240-31386-12	ALB039:FBI:G111113	Water	11/11/13 14:10	11/13/13 09:
240-31386-13	ALB039:MW7SB:G111213	Water	11/12/13 07:19	11/13/13 09:
240-31386-14	ALB039:TBI:W111213	Water	11/12/13 00:00	11/13/13 09:1
240-31386-15	ALB039:MW7SB:G111213A	Water	11/12/13 07:19	11/13/13 09:
240-31386-16	ALB039:MW7SG:G111213	Water	11/12/13 07:56	11/13/13 09:
240-31386-17	ALB039:MW7SG:G111213A	Water	11/12/13 07:56	11/13/13 09:1
240-31386-18	ALB039:MW17B:G111213	Water	11/12/13 08:31	11/13/13 09:1
240-31386-19	ALB039:MW15SB:G111213	Water	11/12/13 09:04	11/13/13 09:1
240-31386-20	ALB039:MW16SB:G111213	Water	11/12/13 09:32	11/13/13 09:
240-31386-21	ALB039:MW16DB:G111213	Water	11/12/13 09:55	11/13/13 09:
240-31386-22	ALB039:MW9DB:G111213	Water	11/12/13 10:26	11/13/13 09:1
240-31386-23	ALB039:FB2:W111213	Water	11/12/13 11:10	11/13/13 09:1
240-31386-24	ALB039:RW4:W111213	Water	11/12/13 10:45	11/13/13 09:
240-31386-25	ALB039:RW4:W111213A	Water	11/12/13 10:45	11/13/13 09:1





















Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

Lab Sample ID: 240-31386-1

Lab Sample ID: 240-31386-2

Lab Sample ID: 240-31386-3

Field Sampling

Total/NA

TestAmerica Job ID: 240-31386-1

Client Sample ID:	ALB039:MW2SG:G11111	3
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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance by SM2510B	605				umhos/cm	1	_	Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	6.28				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	10.7				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.02				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	189				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:MW2SB:G111113

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	360		5.0		ug/L	1	_	6020	Total
•									Recoverable
Specific Conductance by SM2510B	950				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	11.1				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.24				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	47				millivolts	1		Field Sampling	Total/NA
ASTM1498									

## Client Sample ID: ALB039:MW3SBA:G111113

Analyte	Result Q	Qualifier R	_ MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	74	5.	5	ug/L		_	6020	Total
								Recoverable
Total Suspended Solids	16	4.	)	mg/L	1		160.2	Total/NA
Ammonia (as N)	0.25	0.2	)	mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	879			umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0			mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	11.0			Celsius	. 1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.48			su	1		Field Sampling	Total/NA

millivolts

ASTM1498

Oxidation Reduction Potential by

#### Client Sample ID: ALB039:MW4SG:G111113

20

lient Sample ID: ALB039:MW4SG:G111113 Lab Sample ID: 240-31386-4							
 Analyte	Result Q	ualifier RL	MDL	Unit	Dil Fac D	Method	Prep Type
Aluminum	210	50		ug/L	1 -	6020	Total
							Recoverable
Arsenic	24	5.0		ug/L	1	6020	Total
							Recoverable
Manganese	220	5.0		ug/L	1	6020	Total
							Recoverable
Ammonia (as N)	0.28	0.20		mg/L	1	350.3	Total/NA
Specific Conductance by SM2510B	394			umhos/cm	1	Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0			mg/L	1	Field Sampling	Total/NA
Field Temperature by Sm2550B	11.6			Celsius	1	Field Sampling	Total/NA
Field pH by SM4500-H B	6.14			SU	1	Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	68			millivolts	1	Field Sampling	Total/NA

Client Sample ID: ALB039:MW4SB:G111113

Lab Sample ID: 240-31386-5

This Detection Summary does not include radiochemical test results.

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-6

Lab Sample ID: 240-31386-7

Lab Sample ID: 240-31386-8

Difference of the Contract of
1972

Lab Sample ID:	240-31386-5	

2.

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## Client Sample ID: ALB039:MW4SB:G111113 (Continued)

Analyte	Result Q	ualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		5.0		ug/L	1	_	6020	Total
									Recoverable
Manganese	41		5.0		ug/L	1		6020	Total
									Recoverable
Nickel	3.8		2.0		ug/L	1		6020	Total
									Recoverable
Total Suspended Solids	69		4.0		mg/L	1		160.2	Total/NA
Ammonia (as N)	13		2.0		mg/L	10		350.3	Total/NA
Specific Conductance by SM2510B	5880				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	6.17				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	10.5				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	12.83				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-102				millivolts	1		Field Sampling	Total/NA

#### Client Sample ID: ALB039:MW8SB:G111113

A polyto	Pacult	Qualifier	RL	MDL.	Unit	Dil Fac	D	Method	Prep Type
Analyte	58	Qualifier — —	50		ug/L		_	6020	Total
- Adminum	00				<b>-3</b>				Recoverable
Manganese	47		5.0		ug/L	1		6020	Total
									Recoverable
Specific Conductance by SM2510B	471				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	10.5				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.36				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	80				millivolts	1		Field Sampling	Total/NA

#### Client Sample ID: ALB039:MW9SB:G111113

- Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Manganese	69	5,0	ug/L		6020	Total
-					050.0	Recoverable
Ammonia (as N)	4.7	0.20	mg/L	1	350.3	Total/NA
Specific Conductance by SM2510B	828		umhos/cm	1	Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0		mg/L	1	Field Sampling	Total/NA
Field Temperature by Sm2550B	9.5		Celsius	1	Field Sampling	Total/NA
Field pH by SM4500-H B	7.45		SU	1	Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-89		millivolts	1	Field Sampling	Total/NA

Client Sample	ID: A	LB039:	MW6SB:	G111113
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	Decul	Qualifier	RL	MDL	Unit	Dil Fac	n	Method	Prep Type
Analyte		Qualifier		MIDL			_		- <del> </del>
Aluminum	65		50		ug/L	1		6020	Total
									Recoverable
Manganese	72		5.0		ug/L	1		6020	Total
									Recoverable
Ammonia (as N)	1.2		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	913				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	8.5				Celsius	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-8

Lab Sample ID: 240-31386-9

Lab Sample ID: 240-31386-10

Lab Sample ID: 240-31386-11

Lab Sample ID: 240-31386-12

Lab Sample ID: 240-31386-13

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## Client Sample ID: ALB039:MW6SB:G111113 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH by SM4500-H B	7.50				SU	1	_	Field Sampling	Total/NA
Oxidation Reduction Potential by	-89				millivolts	1		Field Sampling	Total/NA
A CTM44400									

#### Client Sample ID: ALB039:MW10SG:G111113

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1300		50		ug/L	1	_	6020	Total
									Recoverable
Manganese	150		5.0		ug/L	1		6020	Total
									Recoverable
Total Suspended Solids	79		4.0		mg/L	1		160.2	Total/NA
Ammonia (as N)	1.9		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	790				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	na				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	9.5				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.97				su	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	na				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:MW5SG:G111113

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	380		5.0		ug/L	1	_	6020	Total
									Recoverable
Specific Conductance by SM2510B	988				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	10.4				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.55				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-64				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:MW5SB:G111113

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance by SM2510B	879				umhos/cm	1	_	Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	6.41				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	10.0				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	9.62				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	12				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:FBI:G111113

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac [	Method	Prep Type
Aluminum	94	50	ug/L		6020	Total
						Recoverable

#### Client Sample ID: ALB039:MW7SB:G111213

	Analyte		Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
l	Manganese	24		5.0		ug/L	1	_	6020	Total
Ì										Recoverable

This Detection Summary does not include radiochemical test results.

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW	/7SB:G111	213 (Contin	ued)		-	40-31386-13			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance by SM2510B	610				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	1.18				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	11.1				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.30				su	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	116				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:TBI:W111213

Lab Sample ID: 240-31386-14

No Detections.

- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	18		5.0		ug/L	1	_	6020	Total
Specific Conductance by SM2510B	610				umhos/cm	1		Field Sampling	Recoverable Total/NA
Oxygen, Dissolved by SM4500 O-G	1.18				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	11.1				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.30				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	116				millivolts	1		Field Sampling	Total/NA

#### Client Sample ID: ALB039:MW7SG:G111213

Lab Sam	ple ID:	240-31	386-16
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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		5.0		ug/L	1	_	6020	Total
									Recoverable
Cobalt	2.6		1.0		ug/L	1		6020	Total
									Recoverable
Manganese	710		5.0		ug/L	1		6020	Total
						, ,			Recoverable
Nickel	3.4		2.0		ug/L	1		6020	Total
									Recoverable
Ammonia (as N)	2.1		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	658				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	O				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	9.3				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.89				su	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-50				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:MW7SG:G111213A

Lah S	Sample	יתו.	240-3	1:	386-17	
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Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	2.6		1.0		ug/L	1	_	6020	Total
									Recoverable
Manganese	740		5.0		ug/L	1		6020	Total
_									Recoverable
Nickel	3.3		2.0		ug/L	1		6020	Total
									Recoverable
Ammonia (as N)	2.2		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	658				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 2

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240-31386-1	2,24
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Client Sample ID:	ALB039:MW7SG:G111213A	(Continued)
Client Sample ID:	ALBUS9:NIVV/SG:GTTTZTSA	(Continued)

Lab	Sample	ID:	240-3	1386-17
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Analyte	Result Qualif	ier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved by SM4500 O-G	0			mg/L	1	_	Field Sampling	Total/NA
Field Temperature by Sm2550B	9.3			Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.89			SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-50			millivolts	1		Field Sampling	Total/NA
ASTM1498								

#### Client Sample ID: ALB039:MW17B:G111213

#### Lab Sample ID: 240-31386-18

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Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	150		5.0		ug/L	1	_	6020	Total
v									Recoverable
Total Suspended Solids	10		4.0		mg/L	1		160.2	Total/NA
Ammonia (as N)	0.41		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	268				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	5.18				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	7.9				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.90				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-222				millivolts	1		Field Sampling	Total/NA



#### Client Sample ID: ALB039:MW15SB:G111213

#### Lab Sample ID: 240-31386-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	74		5.0		ug/L	1	_	6020	Total
									Recoverable
Manganese	160		5.0		ug/L	1		6020	Total
•									Recoverable
Ammonia (as N)	3.5		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	821				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1	•	Field Sampling	Total/NA
Field Temperature by Sm2550B	7.4				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6,28				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-99				millivolts	1		Field Sampling	Total/NA

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#### Client Sample ID: ALB039:MW16SB:G111213

#### Lab Sample ID: 240-31386-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	91		5.0		ug/L	1	_	6020	Total
•									Recoverable
Ammonia (as N)	2.6		0.20		mg/L	1		350.3	Total/NA
Specific Conductance by SM2510B	828				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	.0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	8.3				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.33				su	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-72				millivolts	1		Field Sampling	Total/NA
ASTM1498									

	Total
	Recoverable
	Total/NA
Sampling	Total/NA
Sampling	Total/NA
Sampling	Total/NA

#### Client Sample ID: ALB039:MW16DB:G111213

#### Lab Sample ID: 240-31386-21

Analyte	Resu	t Qualifier RL	MDL	Unit Dil Fac	D	Method	Prep Type
Manganes	3	5.0		ug/L 1		6020	Total
							Recoverable

This Detection Summary does not include radiochemical test results.

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

L	ab	Samp	ole	ID:	240-	-313	386-21

Analyte	Result (	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.54		0.20		mg/L	1	_	350,3	Total/NA
Specific Conductance by SM2510B	616				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	7.9				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	8.63				รบ	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-72			.,,	millivolts	1		Field Sampling	Total/NA

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Client Sample ID: ALB039:MW16DB:G111213 (Continued)

lient Sample ID: ALB039:MW9DB:G111213	Lab Sample ID: 240-31386-22

 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	91		5.0		ug/L	1	_	6020	Total
Specific Conductance by SM2510B	639				umhos/cm	1		Field Sampling	Recoverable Total/NA
Oxygen, Dissolved by SM4500 O-G	0				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	8,3				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	7.32				su	1		Field Sampling	Total/NA
Oxidation Reduction Potential by ASTM1498	-51				millivolts	1		Field Sampling	Total/NA

#### Client Sample ID: ALB039:FB2:W111213

Lab Sample ID: 240-31386-23

No Detections.

#### Client Sample ID: ALB039:RW4:W111213 Lab Sample ID: 240-31386-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	67		5.0		ug/L	1	_	6020	Total
									Recoverable
Specific Conductance by SM2510B	832				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	8.62				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	12.3				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.95				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-71				millivolts	1		Field Sampling	Total/NA
ASTM1498									

#### Client Sample ID: ALB039:RW4:W111213A Lab Sample ID: 240-31386-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	77		5.0		ug/L	1	_	6020	Total
-									Recoverable
Specific Conductance by SM2510B	832				umhos/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved by SM4500 O-G	8.62				mg/L	1		Field Sampling	Total/NA
Field Temperature by Sm2550B	12.3				Celsius	1		Field Sampling	Total/NA
Field pH by SM4500-H B	6.95				SU	1		Field Sampling	Total/NA
Oxidation Reduction Potential by	-71				millivolts	1		Field Sampling	Total/NA
ASTM1498									

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This Detection Summary does not include radiochemical test results.

















Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-1

Matrix: Water

Client Sample ID: ALB039:MW2SG:G111113

Date Collected: 11/11/13 09:03

Oxidation Reduction Potential by

ASTM1498

189

Method: 8260B - Volatile Organi	Compounds (	(GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<1.0		1.0		ug/L			11/20/13 18:40	
/inyl chloride	<1.0		1.0		ug/L			11/20/13 18:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	96		63 - 129					11/20/13 18:40	
4-Bromofluorobenzene (Surr)	89		66 - 117					11/20/13 18:40	
Toluene-d8 (Surr)	90		74 - 115					11/20/13 18:40	
Dibromofluoromethane (Surr)	91		75 - 121					11/20/13 18:40	
Method: 8011 - EDB, DBCP, and									
Analyte	Result	Qualifier	RL	MDL		_ <u>D</u>	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 13:20	
Method: 6020 - Metals (ICP/MS)						_			
Analyte		Qualifier	RL	MDL		_ D	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 20:04	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:04	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:04	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:04	
Manganese	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:04	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:04	
General Chemistry						_			
Analyte		Qualifier	RL	MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	<0.20		0.20		mg/L			11/15/13 10:41	
Method: Field Sampling - Field S		O115	Di	MD.	Unit	D	Dronored	Analyzed	Dil Fa
Analyte		Qualifier	RL	MDL			Prepared	11/11/13 09:03	———
Specific Conductance by SM2510B	605				umhos/cm				
Oxygen, Dissolved by SM4500 O-G	6.28				mg/L			11/11/13 09:03	
Field Temperature by Sm2550B	10.7				Celsius			11/11/13 09:03	
					SU			11/11/13 09:03	

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11/11/13 09:03

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-2

Client Sample ID: ALB039:MW2SB:G111113

Date Collected: 11/11/13 09:28 Matrix: Water

Date Received: 11/13/13 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/20/13 19:02	1
Vinyl chloride	<1.0		1.0		ug/L			11/20/13 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129			•		11/20/13 19:02	1
4-Bromofluorobenzene (Surr)	85		66 - 117					11/20/13 19:02	1
Toluene-d8 (Surr)	88		74 - 115					11/20/13 19:02	1
Dibromofluoromethane (Surr)	88		75 - 121					11/20/13 19:02	1

Method: 8011 - EDB, DBCP, and 1,	2,3-TCP (GC)							
Analyte	Result Qual	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011	0.011		ug/L		11/15/13 10:44	11/15/13 13:46	1

Analyte	Result Qu	ualifier RL	MDL	Unit	Ð	Prepared	Analyzed	Dil Fac
Aluminum	<50	50		ug/L		11/14/13 08:53	11/18/13 20:20	1
Antimony	<2.0	2.0		ug/L		11/14/13 08:53	11/18/13 20:20	1
Arsenic	<5.0	5.0		ug/L		11/14/13 08:53	11/18/13 20:20	1
Cobalt	<1.0	1.0		ug/L		11/14/13 08:53	11/18/13 20:20	1
Manganese	360	5.0		ug/L		11/14/13 08:53	11/18/13 20:20	1
Nickel	<2.0	2.0		ug/L		11/14/13 08:53	11/18/13 20:20	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	1
Ammonia (as N)	<0.20		0.20		mg/L			11/15/13 10:42	1

Method: Field Sampling - Field San	npling								
Analyte	Result	Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fac
Specific Conductance by	950				umhos/cm			11/11/13 09:28	1
SM2510B									
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/11/13 09:28	1
Field Temperature by Sm2550B	11.1				Celsius			11/11/13 09:28	1
Field pH by SM4500-H B	6.24				SU			11/11/13 09:28	1
Oxidation Reduction Potential by	47				millivolts			11/11/13 09:28	1
ASTM1498									

Client: Hull & Associates, Inc.

Date Collected: 11/11/13 09:59

Oxidation Reduction Potential by

ASTM1498

Project/Site: Albion-Sheridan Landfill

Client Sample ID: ALB039:MW3SBA:G111113

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-3

Matrix: Water

Method: 8260B - Volatile Organio	Compounds (	GC/MS)							
Mietrioù, 62006 - Volatile Organic Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/20/13 19:25	
Vinyl chloride	<1.0		1.0		ug/L			11/20/13 19:25	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	99		63 - 129					11/20/13 19:25	
4-Bromofluorobenzene (Surr)	92		66 - 117					11/20/13 19:25	
Toluene-d8 (Surr)	92		74 - 115					11/20/13 19:25	
Dibromofluoromethane (Surr)	92		75 - 121					11/20/13 19:25	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC	)							
Analyte	Result	Qualifier	RL	MDL		_ D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 14:11	,
Method: 6020 - Metals (ICP/MS) -						_		A t	DU F-
Analyte		Qualifier	RL	MDL		_ <u>D</u>	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 20:24	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:24	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:24	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:24	
Manganese	74		5.0		ug/L		11/14/13 08:53	11/18/13 20:24	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:24	
General Chemistry						_			5.7 F
Analyte		Qualifier	RL	MDL	Unit	<u> </u>	Prepared	Analyzed	Dii Fa
Total Suspended Solids	16		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	0.25		0.20		mg/L			11/15/13 10:42	
Method: Field Sampling - Field S			51	4451	11-24	-	Bananad	Anglyzad	Dil Fa
Analyte		Qualifier	RL	MDL	Unit	. <u>D</u>	Prepared	Analyzed 11/11/13 09:59	
Specific Conductance by SM2510B	879	•			umhos/cm				
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/11/13 09:59	
Field Temperature by Sm2550B	11.0				Celsius			11/11/13 09:59	
Field pH by SM4500-H B	6.48				SU			11/11/13 09:59	

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11/11/13 09:59

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW4SG:G111113

Date Collected: 11/11/13 10:27

\_ASTM1498

Lab Sample ID: 240-31386-4

Method: 8260B - Volatile Organi						_		Analomad	D:: F-
Analyte		Qualifier	RL -	MDL		_ D	Prepared	Analyzed	Dil Fa
Benzene	<1.0		1.0		ug/L			11/21/13 01:43	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 01:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					11/21/13 01:43	
4-Bromofluorobenzeпе (Surr)	91		66 - 117					11/21/13 01:43	
Toluene-d8 (Surr)	90		74 - 115					11/21/13 01:43	
Dibromofluoromethane (Surr)	88		75 - 121					11/21/13 01:43	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC)	)							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 14:37	
Method: 6020 - Metals (ICP/MS)	- Total Recover	able							
Analyte	Result	Qualifier	RL	MDL		_ D	Prepared	Analyzed	Dil F
Aluminum	210		50		ug/L		11/14/13 08:53	11/18/13 20:28	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:28	
Arsenic	24		5.0		ug/L		11/14/13 08:53	11/18/13 20:28	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:28	
Manganese	220		5.0		ug/L		11/14/13 08:53	11/18/13 20:28	
Nickel -	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:28	
General Chemistry									
Analyte		Qualifier	RL	MDL		_ D	Prepared	Analyzed	Dil F
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	0.28		0.20		mg/L			11/15/13 10:42	
Method: Field Sampling - Field			-		11-74	_	Bassanad	Analysed	DUE
Analyte		Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	_Dil F
Specific Conductance by SM2510B	394	-			umhos/cm			11/11/13 10:27	
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/11/13 10:27	
Field Temperature by Sm2550B	11.6				Celsius			11/11/13 10:27	
Field pH by SM4500-H B	6.14				SU			11/11/13 10:27	
Oxidation Reduction Potential by	68				millivolts			11/11/13 10:27	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

2

Client Sample ID: ALB039:MW4SB:G111113

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Date Collected: 11/11/13 10:55 Date Received: 11/13/13 09:15

Analyte

Lab Sample ID: 240-31386-5

Prepared

Matrix: Water

-	
C	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 02:05	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129			-		11/21/13 02:05	1
4-Bromofluorobenzene (Surr)	93		66 - 117					11/21/13 02:05	1
Toluene-d8 (Surr)	92		74 - 115					11/21/13 02:05	1
Dibromofluoromethane (Surr)	90		75 - 121					11/21/13 02:05	1

		100
-		19/4
Analyzed	Dil Fac	
		200.000

1,2-Dibromo-3-Chloropro	ppane <0.011	0.011		ug/L		11/15/13 10:44	11/15/13 15:27	1
Method: 6020 - Met	als (ICP/MS) - Total Recover	rable						
Analyte	Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50	50		ug/L		11/14/13 08:53	11/18/13 20:32	1
Antimony	<2.0	2.0		ug/L		11/14/13 08:53	11/18/13 20:32	1
Arsenic	6.0	5.0		ug/L		11/14/13 08:53	11/18/13 20:32	1
Cobalt	<1.0	1.0		ug/L		11/14/13 08:53	11/18/13 20:32	1
Manganese	41	5.0		ug/L		11/14/13 08:53	11/18/13 20:32	1
Nickel	3,8	2.0		ug/L		11/14/13 08:53	11/18/13 20:32	1
Manganese	41	5.0		ug/L		11/14/13 08:53	11/18/1	13 20:32

Result Qualifier

MDL Unit

	?
200000	8.925688

General Chemistry  Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	69		4.0		mg/L			11/14/13 09:01	1
Ammonia (as N)	13		2.0		mg/L			11/15/13 10:43	10
Method: Field Sampling - Fiel		Qualifier	DI	MDI	Unit	. n	Prenared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL MDL	. Unit · D	Prepared	Analyzed	Dil Fac
Specific Conductance by	5880		umhos/cm		11/11/13 10:55	1
SM2510B						
Oxygen, Dissolved by SM4500 O-G	6.17		mg/L		11/11/13 10:55	1
Field Temperature by Sm2550B	10.5		Celsius		11/11/13 10:55	1
Field pH by SM4500-H B	12.83		SU		11/11/13 10:55	1
Oxidation Reduction Potential by	-102		millivolts		11/11/13 10:55	1
ASTM1498						

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-6

Matrix: Water

Client	San	nple l	D:	: ALB039:MW8SB:G111113

Date Collected: 11/11/13 11:28

ASTM1498

Method: 8260B - Volatile Organic Analyte		(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0	-	1.0		ug/L			11/21/13 02:27	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 02:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	90		63 - 129					11/21/13 02:27	
4-Bromofluorobenzene (Surr)	86		66 - 117					11/21/13 02:27	
Toluene-d8 (Surr)	86		74 - 115					11/21/13 02:27	
Dibromofluoromethane (Surr)	83		75 - 121					11/21/13 02:27	
Method: 8011 - EDB, DBCP, and '	1,2,3-TCP (GC	)							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 15:53	
Method: 6020 - Metals (ICP/MS) -	Total Recover	able							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
Aluminum	58		50		ug/L		11/14/13 08:53	11/18/13 20:36	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:36	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:36	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:36	
Manganese	47		5.0		ug/L		11/14/13 08:53	11/18/13 20:36	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:36	
General Chemistry									
Analyte		Qualifier	RL	MDL		_ <u>D</u>	Prepared	Analyzed	Dil Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	<0.20		0.20		mg/L			11/15/13 10:55	
Method: Field Sampling - Field S						_			<b></b>
Analyte		Qualifier	RL	MDL	Unit	. <u>D</u>	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	471				umhos/cm			11/11/13 11:28	
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/11/13 11:28	
Field Temperature by Sm2550B	10.5				Celsius			11/11/13 11:28	
Field pH by SM4500-H B	6.36				SU			11/11/13 11:28	
Oxidation Reduction Potential by	80				millivolts			11/11/13 11:28	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW9SB:G111113

Date Collected: 11/11/13 12:03 Date Received: 11/13/13 09:15

ASTM1498

Lab Sample ID: 240-31386-7

Analyte	Compounds (	Qualifier	RL	MDL	Unit	Đ	Prepared	Analyzed	Dil Fa
Benzene	<1.0		1.0		ug/L			11/21/13 02:50	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 02:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	92		63 - 129					11/21/13 02:50	
4-Bromofluorobenzene (Surr)	90		66 - 117					11/21/13 02:50	
Toluene-d8 (Surr)	89		74 - 115					11/21/13 02:50	
Dibromofluoromethane (Surr)	90		75 - 121					11/21/13 02:50	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC	)							
Analyte		Qualifier	RL	MDL		_ <u>D</u>	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 16:18	
Method: 6020 - Metals (ICP/MS) -	Total Recover	able							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 20:40	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:40	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:40	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:40	
Manganese	69		5.0		ug/L		11/14/13 08:53	11/18/13 20:40	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:40	
General Chemistry					Unit	D	Prepared	Analyzed	Dil Fa
General Chemistry <sup>Analyte</sup>	Result	Qualifier	RL	MDL	•				Diria
Analyte	Result <4.0	Qualifier		MDL	mg/L			11/14/13 09:01	
-		Qualifier		MDL				11/14/13 09:01 11/25/13 11:04	
Analyte Total Suspended Solids	<4.0 4.7	Qualifier	4.0	MDL	mg/L	_ =		11/25/13 11:04	
Analyte Total Suspended Solids Ammonia (as N) Method: Field Sampling - Field S	<4.0 4.7 Sampling	Qualifier  Qualifier	4.0	MDL	mg/L	. <u>D</u>	Prepared	11/25/13 11:04 Analyzed	Dil Fa
Analyte Total Suspended Solids Ammonia (as N) Method: Field Sampling - Field S Analyte Specific Conductance by	<4.0 4.7 Sampling		4.0 0.20		mg/L mg/L			11/25/13 11:04	Dil Fa
Analyte Total Suspended Solids Ammonia (as N)  Method: Field Sampling - Field S Analyte  Specific Conductance by SM2510B	<4.0 4.7 Sampling Result		4.0 0.20		mg/L mg/L Unit			11/25/13 11:04 Analyzed	
Analyte Total Suspended Solids Ammonia (as N) Method: Field Sampling - Field S Analyte	<4.0 4.7 Sampling Result 828		4.0 0.20		mg/L mg/L Unit umhos/cm			Analyzed	Dil Fa
Analyte Total Suspended Solids Ammonia (as N)  Method: Field Sampling - Field S Analyte Specific Conductance by SM2510B Oxygen, Dissolved by SM4500 O-G	<4.0 4.7 Sampling Result 828		4.0 0.20		mg/L mg/L Unit umhos/cm			Analyzed 11/11/13 12:03	Dil Fa

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW6SB:G111113

Date Collected: 11/11/13 12:38 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-8

Method: 8260B - Volatile Organic	•		<b>D</b> I	MD:	l late	D	Bronorod	Analyzed	Dil Fa
Analyte		Qualifier	RL 1.0	MDL			Prepared	11/21/13 03:12	
Benzene	<1.0				ug/L				
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 03:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fa
1,2-Dichloroethane-d4 (Suπ)	97		63 - 129					11/21/13 03:12	
4-Bromofluorobenzene (Surr)	91		66 - 117					11/21/13 03:12	
Toluene-d8 (Surr)	92		74 - 115					11/21/13 03:12	
Dibromofluoromethane (Surr)	89		75 - 121				, . ,	11/21/13 03:12	
Method: 8011 - EDB, DBCP, and 1,	,2,3-TCP (GC)	)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 16:44	
Method: 6020 - Metals (ICP/MS) - T	otal Recover	able							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	65		50		ug/L		11/14/13 08:53	11/18/13 20:52	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:52	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:52	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:52	
Manganese	72		5.0		ug/L		11/14/13 08:53	11/18/13 20:52	
Nickel -	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:52	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dii Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	1.2		0.20		mg/L			11/25/13 11:09	
Method: Field Sampling - Field Sa	mpling								
Analyte	Result	Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	913				umhos/cm			11/11/13 12:38	
Oxygen, Dissolved by SM4500 O-G	0	•			mg/L			11/11/13 12:38	
Field Temperature by Sm2550B	8.5				Celsius			11/11/13 12:38	
Field pH by SM4500-H B	7.50				SU			11/11/13 12:38	
Oxidation Reduction Potential by ASTM1498	-89				millivolts			11/11/13 12:38	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW10SG:G111113

Date Collected: 11/11/13 12:53

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-9 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 03:35	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		63 - 129			-		11/21/13 03:35	1
4-Bromofluorobenzene (Surr)	85		66 - 117					11/21/13 03:35	1
Toluene-d8 (Surr)	86		74 - 115					11/21/13 03:35	1
Dibromofluoromethane (Surr)	84		75 - 121					11/21/13 03:35	1

— Method: 8011 - EDB, DBCP, and 1	,2,3-TCP (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011	0.011	ug/L		11/15/13 10:44	11/15/13 17:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1300		50		ug/L		11/14/13 08:53	11/18/13 20:56	1
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:56	1
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 20:56	1
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 20:56	1
Manganese	150		5.0		ug/L		11/14/13 08:53	11/18/13 20:56	1
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 20:56	1

General Cl	nemistry									
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Susper	nded Solids	79		4.0		mg/L			11/14/13 09:01	1
Ammonia (a	3 N)	1.9		0.20		mg/L		•	11/25/13 11:14	1
Γ										

Method: Field Sampling - Field Sam	pling						
Analyte	Result Qualifier	RL	MDL	Unit · D	Prepared	Analyzed	Dil Fac
Specific Conductance by SM2510B	790			umhos/cm		11/11/13 12:53	1
Oxygen, Dissolved by SM4500 O-G	na			mg/L		11/11/13 12:53	1
Field Temperature by Sm2550B	9.5			Celsius		11/11/13 12:53	1
Field pH by SM4500-H B	6.97			SU		11/11/13 12:53	1
Oxidation Reduction Potential byASTM1498	na .			millivolts		11/11/13 12:53	1

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW5SG:G111113

Date Collected: 11/11/13 13:29 Date Received: 11/13/13 09:15

Analyte

Lab Sample ID: 240-31386-10

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1,0		1.0		ug/L			11/21/13 03:57	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129			-		11/21/13 03:57	1
4-Bromofluorobenzene (Surr)	91		66 - 117					11/21/13 03:57	1
Toluene-d8 (Surr)	89		74 - 115					11/21/13 03:57	1
Dibromofluoromethane (Surr)	90		75 - 121					11/21/13 03:57	1



Method: 6011 - EDB, DBCP, and	1,2,3-107 (00)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011	0.011		ug/L		11/15/13 10:44	11/15/13 17:34	1
<u>.</u>								
Method: 6020 - Metals (ICP/MS) -	Total Recoverable							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50	50		ug/L		11/14/13 08:53	11/18/13 21:00	1



Analyte	Result Qualifier	RL	MDL. Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50	50	ug/L		11/14/13 08:53	11/18/13 21:00	1
Antimony	<2.0	2.0	ug/L		11/14/13 08:53	11/18/13 21:00	1
Arsenic	<5.0	5.0	ug/L		11/14/13 08:53	11/18/13 21:00	1
Cobalt	<1.0	1.0	ug/L		11/14/13 08:53	11/18/13 21:00	1
Manganese	380	5.0	ug/L		11/14/13 08:53	11/18/13 21:00	1
Nickel	<2.0	2.0	ug/L		11/14/13 08:53	11/18/13 21:00	1
_ _							
General Chemistry							



Dil Fac

Analyzed

11/14/13 09:01

Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	1
Ammonia (as N)	<0.20	٨	0.20		mg/L			11/15/13 15:19	1
Method: Field Sampling - Field Sa	mpling								
Analyte	Result	Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fac
Specific Conductance by	988		-		umhos/cm			11/11/13 13:29	1
SM2510B									
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/11/13 13:29	1
1					0-1-1			444444949.00	4

RL

Result Qualifier

Unit

Field Temperature by Sm2550B 10.4 11/11/13 13:29 SU 11/11/13 13:29 Field pH by SM4500-H B 7.55 millivolts 11/11/13 13:29 Oxidation Reduction Potential by -64 ASTM1498

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW5SB:G111113

Date Collected: 11/11/13 13:55

ASTM1498

Lab Sample ID: 240-31386-11



Method: 8260B - Volatile Organi			<b>D</b> 1	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	<1.0	Qualifier		MDL	ug/L		Frepared	11/21/13 04:19	
Benzene					=			11/21/13 04:19	
Vinyl chloride	<1.0		1.0		ug/L			1 1/2 1/13 04.19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Suπ)	96		63 - 129	•				11/21/13 04:19	
4-Bromofluorobenzene (Surr)	91		66 - 117					11/21/13 04:19	
Toluene-d8 (Surr)	89		74 - 115					11/21/13 04:19	
Dibromofluoromethane (Surr)	88		75 - 121					11/21/13 04:19	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC	)							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 17:59	
Method: 6020 - Metals (ICP/MS)  Analyte	Result	able Qualifier	RL	MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:04	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:04	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:04	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 21:04	
Manganese	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:04	
Nickel ·	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:04	
General Chemistry									
Analyte		Qualifier	RL	MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	
Ammonia (as N)	<0.20	٨	0.20		mg/L			11/15/13 15:38	
Method: Field Sampling - Field S						_			<b>5.1.</b> -
Analyte		Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	879				umhos/cm			11/11/13 13:55	
Oxygen, Dissolved by SM4500 O-G	6.41				mg/L			11/11/13 13:55	
Field Temperature by Sm2550B	10.0				Celsius			11/11/13 13:55	
Field pH by SM4500-H B	9.62				SU			11/11/13 13:55	
								11/11/13 13:55	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-12

Material Material

11/15/13 15:43

Matrix: Water

Client Sample	ID: ALB039:	FBI:G111113
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Date Collected: 11/11/13 14:10 Date Received: 11/13/13 09:15

Ammonia (as N)

Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L		<del></del>	11/21/13 04:42	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129					11/21/13 04:42	1
4-Bromofluorobenzene (Surr)	90		66 - 117					11/21/13 04:42	1
Toluene-d8 (Surr)	90		74 - 115					11/21/13 04:42	1
Dibromofluoromethane (Surr)	91		75 - 121					11/21/13 04:42	
: Method: 6020 - Metals (ICP/M <sup>Analyte</sup>		rable Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	94		50		ug/L		11/14/13 08:53	11/18/13 21:07	•
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:07	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:07	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 21:07	•
Manganese	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:07	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:07	
General Chemistry									Dil Fa
				MOI	I I mile	_ n		Λησίντρα	
Analyte Total Suspended Solids		Qualifier	4.0	MDL	Unit mg/L	<u>D</u>	Prepared	Analyzed 11/14/13 09:01	

0.20

<0.20 ^

mg/L

Client: Hull & Associates, Inc.

Total Suspended Solids

ASTM1498

Project/Site: Albion-Sheridan Landfill

Client Sample ID: ALB039:MW7SB:G111213

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-13

Date Collected: 11/12/13 07:19 Date Received: 11/13/13 09:15								Matrix	c: Water
Method: 8260B - Volatile Orga	nic Compounds (	(GC/MS)	•			•			
Analyte	•	Qualifier	RL	MDL	Unit .	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 05:04	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 05:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129					11/21/13 05:04	
4-Bromofluorobenzene (Surr)	87		66 - 117					11/21/13 05:04	1
Toluene-d8 (Surr)	87		74 - 115					11/21/13 05:04	1
Dibromofluoromethane (Surr)	86		75 - 121					11/21/13 05:04	
- Method: 8011 - EDB, DBCP, ar	nd 1,2,3-TCP (GC)	)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 18:50	1
- Method: 6020 - Metals (ICP/MS	S) - Total Recover	able							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:11	1
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:11	1
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:11	1
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 21:11	1
Manganese	24		5.0		ug/L		11/14/13 08:53	11/18/13 21:11	1
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:11	1

Result Qualifier

<4.0

Ammonia (as N)	<0.20 ^	0.20	mg/L	11/15/13 15:51	1
Method: Field Sampling - Field Sam	pling				
Analyte	Result Qualifier	RL	MDL Unit D	Prepared Analyzed	Dil Fac
Specific Conductance by	610		umhos/cm	11/12/13 07:19	1
SM2510B					
Oxygen, Dissolved by SM4500 O-G	1.18		mg/L	11/12/13 07:19	1
Field Temperature by Sm2550B	11.1		Celsius	11/12/13 07:19	1
Field pH by SM4500-H B	7.30		SU	11/12/13 07:19	1
Oxidation Reduction Potential by	116		millivolts	11/12/13 07:19	1

RL

4.0

MDL Unit

mg/L

Prepared

Analyzed

11/14/13 09:01

Dil Fac

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-14

Matrix: Water

Client Sample ID: ALB0	)39:TBI:W111213
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Date Collected: 11/12/13 00:00

Date Received: 11/13/13 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 05:26	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		63 - 129			•		11/21/13 05:26	1
4-Bromofluorobenzene (Surr)	83		66 - 117					11/21/13 05:26	1
Toluene-d8 (Surr)	82		74 - 115					11/21/13 05:26	1
Dibromofluoromethane (Surr)	82		75 - 121	.,,				11/21/13 05:26	1

- 1		,3-TCP (GC)	+							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 19:15	1





















Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

2

Client Sample ID: ALB039:MW7SB:G111213A

Date Collected: 11/12/13 07:19 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-15

-	74.	
;	5	

Method: 8260B - Volatile Orga <sub>Analyte</sub>		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 05:48	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129					11/21/13 05:48	1
-Bromofluorobenzene (Surr)	90		66 - 117					11/21/13 05:48	1
Toluene-d8 (Surr)	91		74 - 115					11/21/13 05:48	1
Dibromofluoromethane (Surr)	90		75 - 121					11/21/13 05:48	
·		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte ,2-Dibromo-3-Chloropropane	Result   <0.011	Qualifier	RL 0.011	MDL	Unit ug/L	D	Prepared 11/15/13 10:44	Analyzed 11/15/13 20:05	Dil Fac
nalyte ,2-Dibromo-3-Chloropropane Method: 6020 - Metals (ICP/MS	Result <0.011 6) - Total Recover	Qualifier		MDL		D			
nalyte ,2-Dibromo-3-Chloropropane flethod: 6020 - Metals (ICP/MS nalyte	Result <0.011 6) - Total Recover	Qualifier	0.011		ug/L		11/15/13 10:44	11/15/13 20:05	
nalyte ,2-Dibromo-3-Chloropropane Method: 6020 - Metals (ICP/MS .nalyte .luminum	Result <0.011 6) - Total Recover Result	Qualifier	0.011		ug/L Unit		11/15/13 10:44 Prepared	11/15/13 20:05 Analyzed	
nalyte ,2-Dibromo-3-Chloropropane flethod: 6020 - Metals (ICP/MS nalyte luminum ntimony	Result <0.011  6) - Total Recover Result <50	Qualifier	0.011 RL 50		ug/L Unit		11/15/13 10:44  Prepared  11/14/13 08:53	11/15/13 20:05  Analyzed  11/18/13 21:15	
nalyte ,2-Dibromo-3-Chloropropane //ethod: 6020 - Metals (ICP/MS nalyte duminum antimony arsenic	Result   <0.011	Qualifier	0.011  RL  50 2.0		ug/L Unit ug/L ug/L		Prepared 11/14/13 08:53 11/14/13 08:53	Analyzed 11/18/13 21:15 11/18/13 21:15	
Method: 8011 - EDB, DBCP, and Analyte 1,2-Dibromo-3-Chloropropane  Method: 6020 - Metals (ICP/MS Analyte Aluminum Antimony Arsenic Cobalt Manganese	Result <0.011  6) - Total Recover Result <50 <2.0 <5.0	Qualifier	0.011 RL 50 2.0 5.0		ug/L Unit ug/L ug/L		Prepared 11/14/13 08:53 11/14/13 08:53 11/14/13 08:53	Analyzed 11/18/13 21:15 11/18/13 21:15 11/18/13 21:15	Dil Fac

Cobalt	<1.0		1.0	ug/	L	11/14/13 08:53	11/18/13 21:15	1
Manganese	18		5.0	ug	L	11/14/13 08:53	11/18/13 21:15	1
Nickel	<2.0		2.0	ug	'L	11/14/13 08:53	11/18/13 21:15	1
General Chemistry								
Analyte	Result (	Qualifier	RL	MDL Un	it	D Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0	mg	/L		11/14/13 09:01	1
Ammonia (as N)	<0.20	۸.	0.20	mg	/L		11/15/13 15:57	1
<u></u>								

Result (	Qualifier RL	MÐL	Unit	· D	Prepared	Analyzed	Dil Fac
610			umhos/cm			11/12/13 07:19	1
1.18			mg/L			11/12/13 07:19	1
11.1			Celsius			11/12/13 07:19	1
7.30			SU			11/12/13 07:19	1
116			millivoits			11/12/13 07:19	1
	610 1.18 11.1 7.30	610 1.18 11.1 7.30	610 1.18 11.1 7.30	610 umhos/cm  1.18 mg/L  11.1 Celsius  7.30 SU	610 umhos/cm  1.18 mg/L  11.1 Celsius  7.30 SU	610 umhos/cm  1.18 mg/L  11.1 Celsius  7.30 SU	610     umhos/cm     11/12/13 07:19       1.18     mg/L     11/12/13 07:19       11.1     Celsius     11/12/13 07:19       7.30     SU     11/12/13 07:19

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-16

Matrix: Water

Client Sample ID: ALB039:MW7SG:G111213

Method: 8260B - Volatile Organic Compounds (GC/MS)

Date Collected: 11/12/13 07:56 Date Received: 11/13/13 09:15

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	u	ıg/L			11/21/13 06:10	1
Vinyl chloride	<1.0		1.0	u	ıg/L			11/21/13 06:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		63 - 129			-		11/21/13 06:10	1
4-Bromofluorobenzene (Surr)	85		66 - 117					11/21/13 06:10	1
Toluene-d8 (Surr)	83		74 - 115					11/21/13 06:10	1
Dibromofluoromethane (Surr)	83		75 - 121					11/21/13 06:10	1

Method: 8011 - EDB, DBCP, and 1	1,2,3-TCP (GC)	1							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 20:31	1
Method: 6020 - Metals (ICP/MS) -	Total Recover	able							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:19	
Aluminum	-00		00		ug/L				•
Antimony	<20		20		ua/i		11/14/13 08:53	11/18/13 21:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:19	1
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:19	1
Arsenic	5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:19	1
Cobalt	2.6		1.0		ug/L		11/14/13 08:53	11/18/13 21:19	1
Manganese	710		5.0		ug/L		11/14/13 08:53	11/18/13 21:19	1
Nickel	3.4		2.0		ug/L		11/14/13 08:53	11/18/13 21:19	1
<del>-</del> -						-			

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	1
Ammonia (as N)	2.1		0.20		mg/L			11/25/13 11:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance by	658				umhos/cm			11/12/13 07:56	1
SM2510B									
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/12/13 07:56	1
Field Temperature by Sm2550B	9.3				Celsius			11/12/13 07:56	
Field pH by SM4500-H B	6.89				SU			11/12/13 07:56	1
Oxidation Reduction Potential by	-50				millivolts			11/12/13 07:56	•
ASTM1498									

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-17

Matrix: Water

Client Sample ID: ALB039:MW7SG:G111213A

Date Collected: 11/12/13 07:56 Date Received: 11/13/13 09:15

Method: 8260B - Volatile Organi	c Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 06:33	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129			-		11/21/13 06:33	1
4-Bromofluorobenzene (Surr)	89		66 - 117					11/21/13 06:33	1
Toluene-d8 (Surr)	88		74 - 115					11/21/13 06:33	1
Dibromofluoromethane (Surr)	89		75 - 121					11/21/13 06:33	1

Wethou: out - EDD, DDCP, and 1,2,	3-10P (GC)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dii Fac	
1,2-Dibromo-3-Chloropropane	<0.011	0.011		ug/L		11/15/13 10:44	11/15/13 20:56	1	
Method: 6020 - Metals (ICP/MS) - To	tal Recoverable								
Analyte	Result Qualifier	RL	MDL	Unit	ם	Prepared	Analyzed	Dil Fac	

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50	50		ug/L		11/14/13 08:53	11/18/13 21:23	1
Antimony	<2.0	2.0		ug/L		11/14/13 08:53	11/18/13 21:23	1
Arsenic	<5.0	5.0		ug/L		11/14/13 08:53	11/18/13 21:23	1
Cobalt	2.6	1.0		ug/L		11/14/13 08:53	11/18/13 21:23	1
Manganese	740	5.0		ug/L		11/14/13 08:53	11/18/13 21:23	1
Nickel	3.3	2.0		ug/L		11/14/13 08:53	11/18/13 21:23	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0		mg/L			11/14/13 09:01	1
Ammonia (as N)	2.2		0.20		mg/L			11/18/13 16:35	1

Method: Field Sampling - Field San					114	_		A I	DUE
Analyte	Result	Qualifier	RL	MDL	Unit	. ח	Prepared	Analyzed	Dil Fac
Specific Conductance by SM2510B	658				umhos/cm			11/12/13 07:56	1
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/12/13 07:56	1
Field Temperature by Sm2550B	9.3				Celsius			11/12/13 07:56	1
Field pH by SM4500-H B	6.89				SU			11/12/13 07:56	1
Oxidation Reduction Potential by ASTM1498	-50				millivolts			11/12/13 07:56	1

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW17B:G111213

Date Collected: 11/12/13 08:31 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 06:55	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		63 - 129			-		11/21/13 06:55	1
4-Bromofluorobenzene (Surr)	85		66 - 117					11/21/13 06:55	1
Toluene-d8 (Surr)	84		74 - 115					11/21/13 06:55	1
Dibromofluoromethane (Surr)	84		75 - 121					11/21/13 06:55	

Method: 8011 - EDB, DBCP, and 1,2,3	3-TCP (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L	_	11/15/13 10:44	11/15/13 21:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:27	1
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:27	1
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:27	1
Cobalt	<1.0		1.0		ug/L	* * * * *	11/14/13 08:53	11/18/13 21:27	1
Manganese	150		5.0		ug/L		11/14/13 08:53	11/18/13 21:27	1
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:27	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	10		4.0		mg/L	 		11/15/13 11:19	1
Ammonia (as N)	0.41		0.20		mg/L			11/18/13 16:35	1

Method: Field Sampling - Field San	npling							
Analyte	Result Qualifi	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance by	268			umhos/cm			11/12/13 08:31	1
SM2510B								
Oxygen, Dissolved by SM4500 O-G	5.18			mg/L			11/12/13 08:31	· 1
Field Temperature by Sm2550B	7.9			Celsius			11/12/13 08:31	1
Field pH by SM4500-H B	7.90			SU			11/12/13 08:31	1
Oxidation Reduction Potential by	-222			millivolts			11/12/13 08:31	1
ASTM1498								

Client: Hull & Associates, Inc.

Date Collected: 11/12/13 09:04

Field pH by SM4500-H B

ASTM1498

Oxidation Reduction Potential by

-99

Project/Site: Albion-Sheridan Landfill

Client Sample ID: ALB039:MW15SB:G111213

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-19

Matrix: Water

2	

Method: 8260B - Volatile Organic	Compounds (	(GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 07:18	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 07:18	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	98		63 - 129					11/21/13 07:18	
4-Bromofluorobenzene (Surr)	93		66 - 117					11/21/13 07:18	
Toluene-d8 (Surr)	91		74 - 115					11/21/13 07:18	
Dibromofluoromethane (Surr)	92		75 - 121					11/21/13 07:18	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC)	)							
Analyte		Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/15/13 23:27	
Method: 6020 - Metals (ICP/MS) -									D11 E
Analyte		Qualifier	RL	MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:39	•
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:39	
Arsenic	74		5.0		ug/L		11/14/13 08:53	11/18/13 21:39	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 21:39	
Manganese	160		5.0		ug/L		11/14/13 08:53	11/18/13 21:39	•
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:39	,
General Chemistry									
Analyte		Qualifier	RL	MDL	Unit	_ <u>D</u>	Prepared	Analyzed	Dii Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/15/13 11:19	
Ammonia (as N)	3.5		0.20		mg/L			11/18/13 16:55	•
Method: Field Sampling - Field S						_		A colonial	D9 F-
Analyte		Qualifier	RL	MDL	Unit	. <u>D</u>	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	821				umhos/cm			11/12/13 09:04	
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/12/13 09:04	
Field Temperature by Sm2550B	7.4				Celsius			11/12/13 09:04	

millivoits

11/12/13 09:04

11/12/13 09:04

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW16SB:G111213

Date Collected: 11/12/13 09:32

Oxidation Reduction Potential by

ASTM1498

Lab Sample ID: 240-31386-20

Matrix: Water

Method: 8260B - Volatile Organic	Compounds (	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
Benzene	<1.0		1.0		ug/L			11/21/13 07:40	
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 07:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surτ)	94		63 - 129					11/21/13 07:40	
4-Bromofluorobenzene (Surr)	88		66 - 117					11/21/13 07:40	
Toluene-d8 (Surr)	87		74 - 115					11/21/13 07:40	
Dibromofluoromethane (Surr)	89		75 - 121					11/21/13 07:40	
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC)	)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/15/13 23:53	
Method: 6020 - Metals (ICP/MS) -	Total Recover	able							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 08:53	11/18/13 21:43	
Antimony	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:43	
Arsenic	<5.0		5.0		ug/L		11/14/13 08:53	11/18/13 21:43	
Cobalt	<1.0		1.0		ug/L		11/14/13 08:53	11/18/13 21:43	
Manganese	91		5.0		ug/L		11/14/13 08:53	11/18/13 21:43	
Nickel	<2.0		2.0		ug/L		11/14/13 08:53	11/18/13 21:43	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/15/13 11:19	
Ammonia (as N)	2.6		0.20		mg/L			11/18/13 16:55	
Method: Field Sampling - Field S	ampling								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	828				umhos/cm			11/12/13 09:32	-
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/12/13 09:32	
Field Temperature by Sm2550B	8.3				Celsius			11/12/13 09:32	

millivolts

11/12/13 09:32

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

## Client Sample ID: ALB039:MW16DB:G111213

Date Collected: 11/12/13 09:55

ASTM1498

Lab Sample ID: 240-31386-21

Method: 8260B - Volatile Organ		(GC/MS) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	<1.0	Qualifier	1.0	WIDE				11/21/13 08:02	- Dil Fa
Benzene					ug/L				
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 08:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	87		63 - 129					11/21/13 08:02	
4-Bromofluorobenzene (Surr)	82		66 - 117					11/21/13 08:02	
Toluene-d8 (Surr)	82		74 - 115					11/21/13 08:02	
Dibromofluoromethane (Surr)	84		75 - 121					11/21/13 08:02	
Method: 8011 - EDB, DBCP, and	d 1,2,3-TCP (GC)	)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/16/13 00:18	
Method: 6020 - Metals (ICP/MS)	. Total Pecover	alde							
Analyte		Qualifier	RL	MDL	Unit	Ð	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 09:18	11/18/13 23:45	
Antimony	<2.0		2.0		ug/L		11/14/13 09:18	11/18/13 23:45	
Arsenic	<5.0		5.0		ug/L		11/14/13 09:18	11/18/13 23:45	
Cobalt	<1.0		1.0		ug/L		11/14/13 09:18	11/18/13 23:45	
Manganese	39		5.0		ug/L		11/14/13 09:18	11/18/13 23:45	
Nickel	<2.0		2.0		ug/L		11/14/13 09:18	11/18/13 23:45	
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total Suspended Solids	<u> </u>		4.0		mg/L	- <del>-</del>		11/15/13 11:19	
Ammonia (as N)	0.54		0.20		mg/L			11/18/13 16:55	
Ammonia (as N)	0.54		0.20		mg/L			11110/10 10:00	
Method: Field Sampling - Field			DI.	MDI	11-14	_	Dunmannad	8 lu d	Dil F
Analyte		Qualifier 	RL	MDL	Unit	· D	Prepared	Analyzed	
Specific Conductance by SM2510B	616				umhos/cm			11/12/13 09:55	
Oxygen, Dissolved by SM4500 O-G	0				mg/L			11/12/13 09:55	
Field Temperature by Sm2550B	7.9				Celsius			11/12/13 09:55	
Field pH by SM4500-H B	8.63				SU			11/12/13 09:55	
Oxidation Reduction Potential by	-72				millivolts			11/12/13 09:55	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

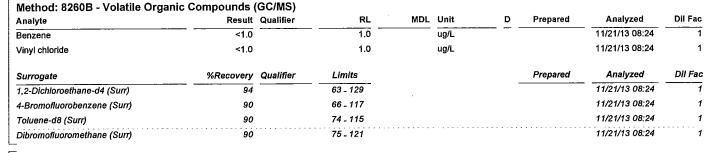
TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-22

Matrix: Water

#### Client Sample ID: ALB039:MW9DB:G111213

Date Collected: 11/12/13 10:26 Date Received: 11/13/13 09:15



	Method: 8011 - EDB, DBCP, and 1,2	2,3-TCP (GC)						
ĺ	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	1,2-Dibromo-3-Chloropropane	<0.011	0.011	ug/L		11/15/13 10:45	11/16/13 00:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 09:18	11/19/13 00:09	1
Antimony	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:09	1
Arsenic	<5.0		5.0		ug/L		11/14/13 09:18	11/19/13 00:09	1
Cobalt	<1.0		1.0		ug/L		11/14/13 09:18	11/19/13 00:09	1
Manganese	91		5.0		ug/L		11/14/13 09:18	11/19/13 17:13	1
Nickel	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:09	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	)	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.0		4.0		mg/L		-	11/15/13 11:19	1
Ammonia (as N)	<0.20		0.20		mg/L			11/18/13 17:27	1

Analyte	Result Qualifier	RL	MDL	Unit D P	repared Analyzed	Dil Fac
Specific Conductance by SM2510B	639			umhos/cm	11/12/13 10:26	1
Oxygen, Dissolved by SM4500 O-G	0			mg/L	11/12/13 10:26	1
Field Temperature by Sm2550B	8.3			Celsius	11/12/13 10:26	1
Field pH by SM4500-H B	7.32			SU	11/12/13 10:26	1
Oxidation Reduction Potential by ASTM1498	-51			millivolts	11/12/13 10:26	1

# **Client Sample Results**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

11/18/13 17:27

Client Sample ID: ALB039:FB2:W111213 Lab Sample ID: 240-31386-23

Date Collected: 11/12/13 11:10

Ammonia (as N)

Matrix: Water

· •	AAGIGI	
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		- SEE
		220

Method: 8260B - Volatile Orgar Analyte		GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 13:17	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					11/21/13 13:17	1
4-Bromofluorobenzene (Surr)	89		66 - 117					11/21/13 13:17	1
Toluene-d8 (Surr)	88		74 - 115					11/21/13 13:17	1
Dibromofluoromethane (Surr)	89	,	75 - 121					11/21/13 13:17	1
Method: 6020 - Metals (ICP/MS		able Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Quainier	50	INDL	ug/L	<u> </u>	11/14/13 09:18	11/19/13 00:12	
Aluminum	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:12	
•					-				
Arsenic	<5.0		5.0		ug/L		11/14/13 09:18	11/19/13 00:12	
Arsenic Cobalt	<5.0 <1.0	Δ	5.0 1.0		ug/L ug/L		11/14/13 09:18 11/14/13 09:18		
Arsenic Cobalt Manganese	<5.0	^	5.0		ug/L		11/14/13 09:18	11/19/13 00:12 11/19/13 00:12	1 1 1 1
Antimony Arsenic Cobalt Manganese Nickel General Chemistry Analyte	<5.0 <1.0 <5.0 <2.0	۸ Qualifier	5.0 1.0 5.0	MDL	ug/L ug/L ug/L ug/L	D	11/14/13 09:18 11/14/13 09:18 11/14/13 09:18	11/19/13 00:12 11/19/13 00:12 11/19/13 00:12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

0.20

<0.20

mg/L

# **Client Sample Results**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:RW4:W111213

Date Collected: 11/12/13 10:45

Oxidation Reduction Potential by

ASTM1498

Lab Sample ID: 240-31386-24

Matrix: Water

_	4
;	5

Method: 8260B - Volatile Organic	•		RL	MDL	I lmit	D	Prepared	Analyzed	Dil Fac
Analyte	- Result	Qualifier	1.0	WIDL	ug/L			11/21/13 13:39	1
Benzene					-			11/21/13 13:39	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 13:39	!
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129					11/21/13 13:39	1
4-Bromofluorobenzene (Surr)	93		66 - 117					11/21/13 13:39	1
Toluene-d8 (Surr)	91		74 - 115					11/21/13 13:39	1
Dibromofluoromethane (Surr)	91	, ,	75 - 121					11/21/13 13:39	1
Method: 8011 - EDB, DBCP, and	1,2,3-TCP (GC)	)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/16/13 01:34	•
Method: 6020 - Metais (ICP/MS) -	Total Recover	able							
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
Aluminum	<50		50		ug/L		11/14/13 09:18	11/19/13 00:16	•
Antimony	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:16	
Arsenic	<5.0		5.0		ug/L		11/14/13 09:18	11/19/13 00:16	
Cobalt	<1.0		1.0		ug/L		11/14/13 09:18	11/19/13 00:16	•
Manganese	67		5.0		ug/L		11/14/13 09:18	11/19/13 17:17	•
Nickel	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:16	•
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	<4.0		4.0		mg/L			11/15/13 11:19	
Ammonia (as N)	<0.20		0.20		mg/L			11/18/13 17:27	,
Method: Field Sampling - Field S	ampling								
Analyte	Result	Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fa
Specific Conductance by SM2510B	832				umhos/cm			11/12/13 10:45	
Oxygen, Dissolved by SM4500 O-G	8.62				mg/L			11/12/13 10:45	
Field Temperature by Sm2550B	12.3				Celsius			11/12/13 10:45	
Field pH by SM4500-H B	6.95				SU			11/12/13 10:45	

millivolts

11/12/13 10:45

# **Client Sample Results**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

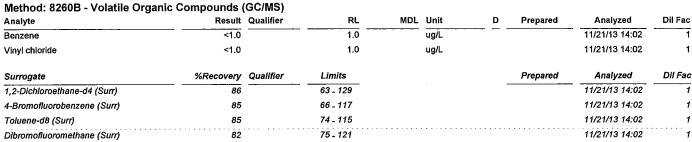
TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-25

Matrix: Water

Client	Sample	ID: A	LB039:F	₹W4:W	111	1213A

Date Collected: 11/12/13 10:45 Date Received: 11/13/13 09:15



Ì	Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/16/13 01:59	1	

Analyte	Result	Qualifier	RL.	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<50		50		ug/L		11/14/13 09:18	11/19/13 00:20	1
Antimony	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:20	1
Arsenic	<5.0		5.0		ug/L		11/14/13 09:18	11/19/13 00:20	1
Cobalt	<1.0		1.0		ug/L		11/14/13 09:18	11/19/13 00:20	1
Manganese	77		5.0		ug/L		11/14/13 09:18	11/19/13 17:21	1
Nickel	<2.0		2.0		ug/L		11/14/13 09:18	11/19/13 00:20	1

l	General Chemistry									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total Suspended Solids	<4.0		4.0		mg/L			11/15/13 11:19	1
	Ammonia (as N)	<0.20		0.20		mg/L			11/18/13 17:27	1

Analyte	Result (	Qualifier	RL	MDL	Unit	· D	Prepared	Analyzed	Dil Fac
Specific Conductance by	832				umhos/cm			11/12/13 10:45	1
SM2510B									
Oxygen, Dissolved by SM4500 O-G	8.62				mg/L			11/12/13 10:45	1
Field Temperature by Sm2550B	12.3				Celsius			11/12/13 10:45	1
Field pH by SM4500-H B	6.95				SU	-		11/12/13 10:45	1
Oxidation Reduction Potential by	-71				millivolts			11/12/13 10:45	1
ASTM1498									

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# **Surrogate Summary**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1







Method: 8260B	- Volatile Or	ganic Compou	ınds (GC/MS)

Prep Type: Total/NA Matrix: Water

					rogate Recovery (Acc	ceptance Limits)
		12DCE	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(63-129)	(66-117)	(74-115)	(75-121)	
240-31386-1	ALB039:MW2SG:G111113	96	89	90	91	
240-31386-2	ALB039:MW2SB:G111113	95	85	88	88	
240-31386-3	ALB039:MW3SBA:G111113	99	92	92	92	
240-31386-4	ALB039:MW4SG:G111113	94	91	90	88	
240-31386-5	ALB039:MW4SB:G111113	96	93	92	90	
240-31386-6	ALB039:MW8SB:G111113	90	86	86	83	
240-31386-7	ALB039:MW9SB:G111113	92	90	89	90	
240-31386-8	ALB039:MW6\$B:G111113	97	91	92	89	
240-31386-9	ALB039:MW10SG:G111113	89	85	86	84	
240-31386-10	ALB039:MW5SG:G111113	95	91	89	90	
240-31386-11	ALB039:MW5SB:G111113	96	91	89	88	
240-31386-12	ALB039:FBI:G111113	95	90	90	91	
240-31386-13	ALB039:MW7SB:G111213	92	87	87	86	
240-31386-14	ALB039:TBI:W111213	87	83	82	82	
240-31386-15	ALB039:MW7SB:G111213A	95	90	91	90	
240-31386-16	ALB039:MW7SG:G111213	86	85	83	83	
240-31386-17	ALB039:MW7SG:G111213A	95	89	88	89	
240-31386-18	ALB039:MW17B:G111213	87	85	84	84	
240-31386-19	ALB039:MW15SB:G111213	98	93	91	92	
240-31386-20	ALB039:MW16SB:G111213	94	88	87	89	
240-31386-21	ALB039:MW16DB:G111213	87	82	82	84	
240-31386-22	ALB039:MW9DB:G111213	94	90	90	90	
240-31386-23	ALB039:FB2:W111213	93	89	88	89	
240-31386-24	ALB039:RW4:W111213	97	93	91	91	
240-31386-24 MS	ALB039:RW4:W111213	95	98	96	94	
240-31386-24 MSD	ALB039:RW4:W111213	84	91	86	85	
240-31386-25	ALB039:RW4:W111213A	86	85	85	82	
LCS 240-110657/4	Lab Control Sample	89	90	90	88	
LCS 240-110660/4	Lab Control Sample	92	98	95	90	
LCS 240-110890/4	Lab Control Sample	86	90	88	85	
MB 240-110657/5	Method Blank	96	92	92	90	
MB 240-110660/5	Method Blank	88	87	86	82	
MB 240-110890/5	Method Blank	86	86	87	83	

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Suπ)

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-110657/5

Matrix: Water

Analyte

Benzene

Vinyl chloride

Analysis Batch: 110657

. MID 240 1406	57 <i>1</i> 5		

мв мв RL MDL Unit Prepared Analyzed Dil Fac Result Qualifier 1.0 ug/L 11/20/13 11:50 <1.0 11/20/13 11:50 1.0 ug/L <1.0

	мв	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129			11/20/13 11:50	1
4-Bromofluorobenzene (Surr)	92		66 - 117			11/20/13 11:50	1
Toluene-d8 (Surr)	92		74 - 115			11/20/13 11:50	1
Dibromofluoromethane (Surr)	90		75 - 121	,		11/20/13 11:50	1

Lab Sample ID: LCS 240-110657/4

Matrix: Water

Analysis Batch: 110657

LCS LCS %Rec. Spike Limits Added Result Qualifier Unit %Rec Analyte 97 83 - 112 10.0 9.74 ug/L Benzene 91 53 - 127 9.06 ug/L Vinyl chloride 10.0

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
4-Bromofluorobenzene (Surr)	90		66 - 117
Toluene-d8 (Surr)	90		74 - 115
Dibromofluoromethane (Surr)	88		75 - 121

Lab Sample ID: MB 240-110660/5

Matrix: Water

Analysis Batch: 110660

	МВ	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/13 01:20	1
Vinyl chloride	<1.0		1.0		ug/L			11/21/13 01:20	1

	MB	MB				
Surrogate	%Recovery	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	1 (Surr) 88	63	. 129		11/21/13 01:20	1
4-Bromofluorobenzen	e (Surr) 87	66	. 117		11/21/13 01:20	1
Toluene-d8 (Surr)	86	74	. 115		11/21/13 01:20	1
Dibromofluoromethan	e (Surr) 82	75	. 121		11/21/13 01:20	1

Lab Sample ID: LCS 240-110660/4

Matrix: Water

Analysis Batch: 110660

/manyone Datem / reces	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	10.0	9.92		ug/L		99	83 - 112	
Vinyl chloride	10.0	10.1		ug/L		101	53 - 127	
	100 100							

Page 39 of 72

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129

TestAmerica Canton

Prep Type: Total/NA



































Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: Lab Control Sample























Dil Fac







Method: 8260B -	Volatile	Organic	Compounds	(GC/MS)	(Continued)
-					

Lab Sample ID: LCS 240-110660/4

Lab Sample ID: MB 240-110890/5

Matrix: Water

Matrix: Water

Analyte

Benzene

Vinyl chloride

Surrogate

Analysis Batch: 110890

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analysis Batch: 110660

	LC3 L	Co		
Surrogate	%Recovery C	(ualifier	Limits	
4-Bromofluorobenzene (Surr)	98		66 - 117	
Toluene-d8 (Surr)	95		74 - 115	
Dibromofluoromethane (Surr)	90		75 - 121	

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prepared Analyzed Dil Fac

<1.0

Result

86

87

83

MB МВ

Qualifier

<1.0 MB MB Limits %Recovery Qualifier 63 - 129 86

1.0

MDL Unit

ug/L

RL

1.0

ug/L

Prepared

11/21/13 12:54 11/21/13 12:54

Analyzed 11/21/13 12:54

11/21/13 12:54 11/21/13 12:54

11/21/13 12:54

Prep Type: Total/NA

Lab Sample ID: LCS 240-110890/4

Matrix: Water

Analyte

Benzene

Vinyl chloride

Toluene-d8 (Surr)

Analysis Batch: 110890

LCS LCS Spike Result Added 10.0 9.75 10.0

66 - 117

74 - 115

75 - 121

Qualifier 9.77

Unit ug/L ug/L %Rec.

Client Sample ID: Lab Control Sample

%Rec 97 83 - 112 98 53 \_ 127

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
4-Bromofluorobenzene (Surr)	90		66 - 117
Toluene-d8 (Surr)	88		74 - 115
Dibromofluoromethane (Surr)	85		75 - 121

Client Sample ID: ALB039:RW4:W111213

72 - 121

49 - 130

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 110890

Lab Sample ID: 240-31386-24 MS

,,	Sample
Analyte	Result
Benzene	<1.0
Vinyl chloride	<1.0

Spike Sample Qualifier Added 10.0 10.0

Qualifier Result 11.0 11.1

MS MS

Unit ug/L ug/L

%Rec 110 107

%Rec. Limits

MS MS Qualifier Limits %Recovery Surrogate 95 63 - 129 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) 98 66 - 117 Toluene-d8 (Surr) 74 - 115 75 - 121 Dibromofluoromethane (Surr)

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Client Sample ID: Method Blank

Prep Type: Total/NA

			- 12 C
			- 833
			32
			13
			12:3
			\$25.50
			8287

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)
--

Lab Sample ID: 240-31386-2 Matrix: Water	4 MSD					(	Client Sa	mple ID	: ALB039:F Prep T	RW4:W1 ype: To	
Analysis Batch: 110890									N/D		DDD
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<1.0		10.0	9.43		ug/L		94	72 - 121	16	30
Vinyl chloride	<1.0		10.0	10.0		ug/L		96	49 - 130	10	30
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	84		63 - 129								
4-Bromofluorobenzene (Surr)	91		66 - 117								
Toluene-d8 (Surr)	86		74 - 115								
Dibromofluoromethane (Surr)	85	,	75 - 121						,,,,,,,		



Lab Sample ID: MB 480-152339/1-A

Matrix: Water								Prep Type: 1	otal/NA
Analysis Batch: 152324								Prep Batch:	152339
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:44	11/15/13 11:10	1

Lab Sample ID: LCS 480-152339/2-A					Client	t Sample	D: Lab Control Sample
Matrix: Water							Prep Type: Total/NA
Analysis Batch: 152324							Prep Batch: 152339
•	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,2-Dibromoethane	0.229	0,233		ug/L		102	46 - 146
1,2-Dibromo-3-Chloropropane	0.229	0.256		ug/L		112	51 - 156

Lab Sample ID: LCSD 480-152339/3-A			Clie	ent Sam	ple ID: I	_ab Contro	I Sampl	Sample Dup pe: Total/NA atch: 152339 RPD RPD Limit 1 40 1 40					
Matrix: Water							Prep T	ype: To	tal/NA				
Analysis Batch: 152324							Prep B	3atch: 1	52339				
•	Spike	LCSD	LCSD				%Rec.		RPD				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
1,2-Dibromoethane	0.229	0.230		ug/L		101	46 - 146	1	40				
1,2-Dibromo-3-Chloropropane	0.229	0.257		ug/L		113	51 - 156	1	40				

Lab Sample ID: MB 480-152340/1-A							Client Sa	mbie in: mietuo	a Blank
Matrix: Water								Prep Type: T	otal/NA
Analysis Batch: 152324								Prep Batch:	152340
	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.011		0.011		ug/L		11/15/13 10:45	11/15/13 22:12	1

Lab Sample ID: LCS 480-152340/2-A					Cilen	t Sample	EID: Lab Control	Sample
Matrix: Water							Prep Type: T	otal/NA
Analysis Batch: 152324							Prep Batch:	152340
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2-Dibromoethane	0.229	0.238		ug/L		104	46 - 146	
1,2-Dibromo-3-Chloropropane	0.229	0.265		ug/L		116	51 <sub>-</sub> 156	

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-109802/1-A

TestAmerica Job ID: 240-31386-1

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Analyzed

11/18/13 19:48

11/18/13 19:48

11/18/13 19:48

11/18/13 19:48

11/18/13 19:48

11/18/13 19:48

Prep Type: Total Recoverable

Prep Batch: 109802

Client Sample ID: Lab Control Sample

Prepared

11/14/13 08:53

11/14/13 08:53

11/14/13 08:53

11/14/13 08:53

11/14/13 08:53

11/14/13 08:53

Prep Batch: 109802

Dil Fac

# Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 480-152340/3-A Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Prep Batch: 152340 Analysis Batch: 152324 LCSD LCSD Spike Limits RPD Limit Result Qualifier D %Rec Added Unit 46 - 146 40 103 0.235 ug/L 1,2-Dibromoethane 0.229 51 - 156 40 0.229 0.263 ug/L 115 1,2-Dibromo-3-Chloropropane

RL

50

2.0

5.0

1.0

5.0

2.0

MDL Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L



Lab Sample ID: LCS 240-109802/2-A

MB MB

<50

<2.0

<5.0

<1.0

<5.0

<2.0

Result Qualifier

Matrix: Water

Matrix: Water

Analyte

Aluminum

Antimony

Arsenic

Cobalt

Nickel

Manganese

Analysis Batch: 110475

Analysis Batch: 110475

		Spike	LCS	LCS			%Rec.
Analyte		Added	Result	Qualifier Unit	D	%Rec	Limits
Aluminum	 <del></del>	10000	9390	ug/L		94	80 - 120
Antimony		100	99.3	ug/L		99	80 - 120
Arsenic		1000	957	ug/L		96	80 - 120
Cobalt		1000	1030	ug/L		103	80 - 120
Mongoporo		1000	1030	ua/l		103	80 - 120

1000

1040

Nickel

Lab Sample ID: 240-31386-1 MS

Matrix: Water

Analysis Batch: 110475

Client Sample ID: ALB039:MW2SG:G111113
Prep Type: Total Recoverable

Client Sample ID: ALB039:MW2SG:G111113

Prep Type: Total Recoverable

104

80 - 120

Prep Batch: 109802

	•	Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
i	Aluminum	<50		10000	9930		ug/L		99	63 - 128	
	Antimony	<2.0		100	106		ug/L		106	44 - 153	
	Arsenic	<5.0		1000	1020		ug/L		102	82 - 123	
	Cobalt	<1.0		1000	1070		ug/L		107	67 - 114	
	Manganese	<5.0		1000	1090		ug/L		108	10 - 172	
	Nickel	<2.0		1000	1060		ug/L		106	72 - 111	

Lab Sample ID: 240-31386-1 MSD Matrix: Water

Analysis Batch: 110475									Prep Batch: 109				
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Aluminum	<50		10000	9820		ug/L		98	63 - 128	1	20		
Antimony	<2.0		100	106		ug/L		106	44 - 153	0	20		
Areanic	<5.0		1000	1010		ua/l		101	82 - 123	2	20		

1000

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Prep Type: Total Recoverable

0

Prep Batch: 109818

Client Sample ID: ALB039:MW2SG:G111113

Limits

67 - 114

10 - 172

72 - 111

Client Sample ID: Lab Control Sample

Client Sample ID: ALB039:MW16DB:G111213

Client Sample ID: ALB039:MW16DB:G111213

Prep Type: Total Recoverable

Prep Type: Total Recoverable

Prep Batch: 109818

Prep Batch: 109818

Client Sample ID: Method Blank

Prep Type: Total Recoverable

%Rec

107

108

106

Unit

ug/L

ug/L

ug/L

ug/L

Prep E			
Rec.		RPD	
nits	RPD	Limit	
<u>- 114</u>	0	20	
- 172	0	20	



20





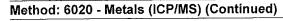












Lab Sample ID: 240-31386-1 MSD Matrix: Water

Analysis Batch: 110475

MSD Sample Sample Spike MSD Added Result Qualifier Analyte Result Qualifier 1070 Cobalt <1.0 1000 Manganese <5.0 1000 1080

<2.0

Lab Sample ID: MB 240-109818/1-A Matrix: Water

Nickel

Aluminum

Antimony

Arsenic

Cobalt

Nickel

Manganese

Analysis Batch: 110475

MB MB

<2.0

Analyzed RL MDL Unit Prepared Qualifier Result 11/14/13 09:18 11/18/13 23:37 50 ug/L <50 11/14/13 09:18 11/18/13 23:37 2.0 ug/L <2.0 11/14/13 09:18 11/18/13 23:37 <5.0 5.0 ug/L 11/18/13 23:37 1.0 ug/L 11/14/13 09:18 <1.0 11/14/13 09:18 11/18/13 23:37 5.0 ug/L <5.0 11/14/13 09:18 11/18/13 23:37

2.0

1060

Lab Sample ID: LCS 240-109818/2-A

Matrix: Water

Analysis Batch: 110475

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	10000	9160	_	ug/L		92	80 - 120	
Antimony	100	105		ug/L		105	80 - 120	
Arsenic	1000	950		ug/L		95	80 - 120	
Cobalt	1000	1100		ug/L		110	80 - 120	
Manganese	1000	1090		ug/L		109	80 - 120	
Nickel	1000	1100		ug/L .		110	80 - 120	

Lab Sample ID: 240-31386-21 MS

Matrix: Water

1	Analysis Batch: 1104/5									i icp =	 •
1		Sample	Sample	Spike	MS	MS				%Rec.	
-	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Aluminum	<50		10000	9290		ug/L		93	63 - 128	 -
	Antimony	<2.0		100	106		ug/L		105	44 - 153	
	Arsenic	<5.0		1000	956		ug/L		95	82 - 123	
	Cobalt	<1.0		1000	1070		ug/L		107	67 - 114	
	Nickel	<2.0		1000	1060		ug/L		106	72 - 111	

Lab Sample ID: 240-31386-21 MS

Matrix: Water

Analysis Batch: 110607	
	S
Analyte	ı

Sample Sample Result Qualifier 39 Manganese

MS MS Spike Result Qualifier Added 1000 1120

Unit

ug/L

%Rec 108

Prep Batch: 109818 Limits

10 - 172

Prep Type: Total Recoverable

Spike

Added

10000

100

1000

1000

1000

MSD

Qualifier

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

MSD

Result

9330

106

943

1090

1080

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill

Lab Sample ID: 240-31386-21 MSD

Matrix: Water

Analyte

Aluminum

Antimony

Arsenic

Cobalt

Analysis Batch: 110475

Method: 6020 - Metals (ICP/MS) (Continued)

Sample Sample

<50

<2.0

<5.0

<1.0

Result Qualifier

TestAmerica Job ID: 240-31386-1

Prep Type: Total Recoverable

Prep Batch: 109818

RPD

0

Limit

20

20

20

20

Client Sample ID: ALB039:MW16DB:G111213

%Rec

93

105

94

109

108

%Rec.

Limits

63 - 128

44 - 153

82 - 123

67 - 114

72 - 111

E11
4











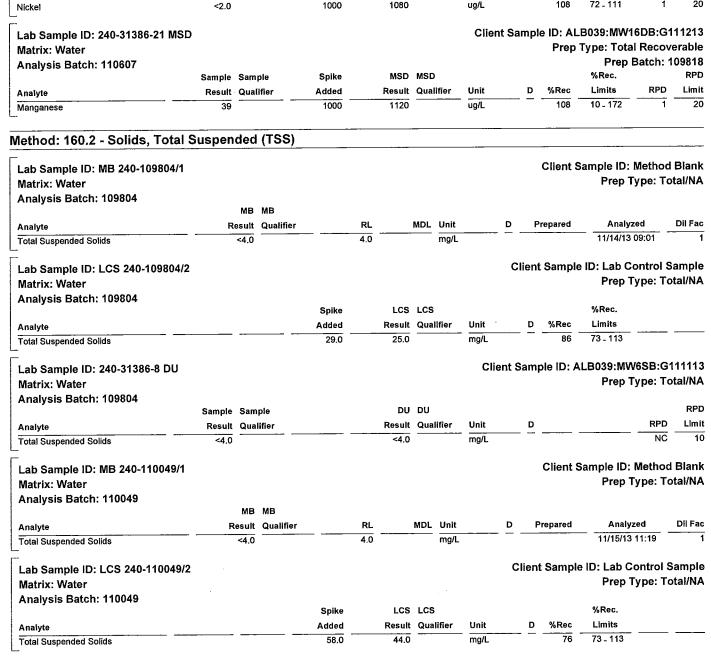












Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill

Lab Sample ID: 240-31386-24 DU

Method: 350.3 - Nitrogen, Ammonia

Lab Sample ID: MB 240-110118/7

Lab Sample ID: LCS 240-110118/8

Lab Sample ID: 240-31386-6 MS

Lab Sample ID: 240-31386-6 MSD

Lab Sample ID: MB 240-110414/7

Matrix: Water

Matrix: Water

Ammonia (as N)

Matrix: Water

Ammonia (as N)

Matrix: Water

Ammonia (as N)

Matrix: Water

Ammonia (as N)

Matrix: Water

Ammonia (as N)

Analyte

Analyte

Analyte

Analyte

Analyte

Analyte

Analyte

Ammonia (as N)

Analysis Batch: 110049

Analysis Batch: 110118

Analysis Batch: 110118

Analysis Batch: 110118

Analysis Batch: 110118

Analysis Batch: 110414

Total Suspended Solids

Method: 160.2 - Solids, Total Suspended (TSS) (Continued)

Sample Sample

Result Qualifier

MB MB

Qualifier

Spike Added

10.1

Spike

Added

2.50

Spike

Added

2.50

Spike

Added

10.1

Result

<0.20

Sample Sample

Sample Sample

<0.20

Result Qualifier

<0.20

Qualifier

TestAmerica Job ID: 240-31386-1

Prep Type: Total/NA

Client Sample ID: ALB039:RW4:W111213

















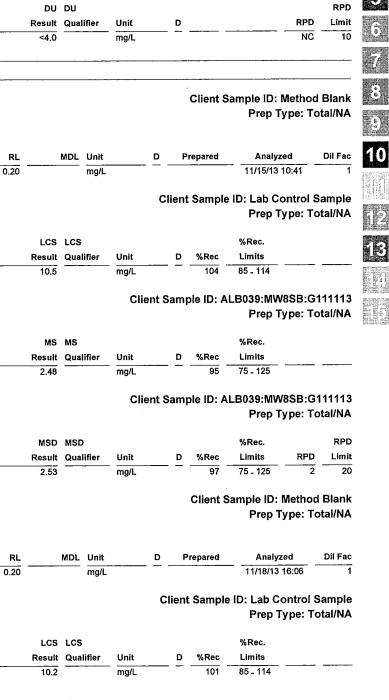












Lab Sample ID: LCS 240-110414/8 Matrix: Water Analysis Batch: 110414

MB MB

<0.20

Result Qualifier

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

Lab Sample ID: MB 240-111362/7

Method: 350.3 - Nitrogen, Ammonia (Continued)

TestAmerica Job ID: 240-31386-1

Client Sample ID: Method Blank



Carlo Carlo	
*	

60500-00500-000000
100 B
100g A 400g
000m2,3500

1				
	В	74	2	
8	E.	•	ч	ĕ
ı	Б.	٠.	а	
8	88			

(A) (S) (S) (S) (S)
6.
E-1000000000000000000000000000000000000





















Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 111362													
-	MB	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D	Pre	epared	Analyzed	Dil Fac
Ammonia (as N)	<0.20			0.20			mg/L	-				11/25/13 10:52	1
Lab Sample ID: LCS 240-111362/8 Matrix: Water									CII	ent	Sample	ID: Lab Control Prep Type:	•
Analysis Batch: 111362			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Quali	ifier	Unit		D	%Rec	Limits	

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

8260B

Water











ß	
- X - X - X - X - X	

















Analysis	Batch:	110657
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	8260B
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	8260B
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	8260B
LCS 240-110657/4	Lab Control Sample	Total/NA	Water	8260B
MB 240-110657/5	Method Blank	Total/NA	Water	8260B

### Analysis Batch: 110660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	8260B	
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	8260B	
240-31386-6	ALB039:MW8SB:G111113	Total/NA	Water	8260B	
240-31386-7	ALB039:MW9SB:G111113	Total/NA	Water	8260B	
240-31386-8	ALB039:MW6SB:G111113	Total/NA	Water	8260B	
240-31386-9	ALB039:MW10SG:G111113	Total/NA	Water	8260B	
240-31386-10	ALB039:MW5SG:G111113	Total/NA	Water	8260B	
240-31386-11	ALB039:MW5SB:G111113	Total/NA	Water	8260B	
240-31386-12	ALB039:FBI:G111113	Total/NA	Water	8260B	
240-31386-13	ALB039:MW7SB:G111213	Total/NA	Water	8260B	
240-31386-14	ALB039:TBI:W111213	Total/NA	Water	8260B	
240-31386-15	ALB039:MW7SB:G111213A	Total/NA	Water	8260B	
240-31386-16	ALB039:MW7SG:G111213	Total/NA	Water	8260B	
240-31386-17	ALB039:MW7SG:G111213A	Total/NA	Water	8260B	
240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	8260B	
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	8260B	
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	8260B	
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	8260B	
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	8260B	
LCS 240-110660/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 110890

Method Blank

MB 240-110660/5

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-23	ALB039:FB2:W111213	Total/NA	Water	8260B	
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	8260B	
240-31386-24 MS	ALB039:RW4:W111213	Total/NA	Water	8260B	
240-31386-24 MSD	ALB039:RW4:W111213	Total/NA	Water	8260B	
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	8260B	
LCS 240-110890/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-110890/5	Method Blank	Total/NA	Water	8260B	

Total/NA

### GC Semi VOA

### Analysis Batch: 152324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	8011	152339
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	8011	152339
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	8011	152339
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	8011	152339
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	8011	152339
240-31386-6	ALB039:MW8SB:G111113	Total/NA	Water	8011	152339

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

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### GC Semi VOA (Continued)

Analysis Batch: 152324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-7	ALB039:MW9SB:G111113	Total/NA	Water	8011	152339
240-31386-8	ALB039:MW6SB:G111113	Total/NA	Water	8011	152339
240-31386-9	ALB039:MW10SG:G111113	Total/NA	Water	8011	152339
240-31386-10	ALB039:MW5SG:G111113	Total/NA	Water	8011	152339
240-31386-11	ALB039:MW5SB:G111113	Total/NA	Water	8011	152339
240-31386-12	ALB039:FBI:G111113	Total/NA	Water	8011	152339
240-31386-13	ALB039:MW7SB:G111213	Total/NA	Water	8011	152339
240-31386-14	ALB039;TBI:W111213	Total/NA	Water	8011	152339
240-31386-15	ALB039:MW7SB:G111213A	Total/NA	Water	8011	152339
240-31386-16	ALB039:MW7SG:G111213	Total/NA	Water	8011	152339
240-31386-17	ALB039:MW7SG:G111213A	Total/NA	Water	8011	152339
240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	8011	152339
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	8011	152340
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	8011	152340
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	8011	152340
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	8011	152340
240-31386-23	ALB039:FB2:W111213	Total/NA	Water	8011	152340
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	8011	152340
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	8011	152340
LCS 480-152339/2-A	Lab Control Sample	Total/NA	Water	8011	152339
LCS 480-152340/2-A	Lab Control Sample	Total/NA	Water	8011	152340
LCSD 480-152339/3-A	Lab Control Sample Dup	Total/NA	Water	8011	152339
LCSD 480-152340/3-A	Lab Control Sample Dup	Total/NA	Water	8011	152340
MB 480-152339/1-A	Method Blank	Total/NA	Water	8011	152339
MB 480-152340/1-A	Method Blank	Total/NA	Water	8011	152340

Prep Batch: 152339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	8011	
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	8011	
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	8011	
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	8011	
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	8011	
240-31386-6	ALB039:MW8SB:G111113	Total/NA	Water	8011	
240-31386-7	ALB039:MW9SB:G111113	Total/NA	Water	8011	
240-31386-8	ALB039:MW6SB:G111113	Total/NA	Water	8011	
240-31386-9	ALB039:MW10SG:G111113	Total/NA	Water	8011	
240-31386-10	ALB039:MW5SG:G111113	Total/NA	Water	8011	
240-31386-11	ALB039:MW5SB:G111113	Total/NA	Water	8011	
240-31386-12	ALB039:FBI:G111113	Total/NA	Water	8011	
240-31386-13	ALB039:MW7SB:G111213	Total/NA	Water	8011	
240-31386-14	ALB039:TBI:W111213	Total/NA	Water	8011	
240-31386-15	ALB039:MW7SB:G111213A	Total/NA	Water	8011	
240-31386-16	ALB039:MW7SG:G111213	Total/NA	Water	8011	
240-31386-17	ALB039:MW7SG:G111213A	Total/NA	Water	8011	
240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	8011	
LCS 480-152339/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 480-152339/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 480-152339/1-A	Method Blank	Total/NA	Water	8011	

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

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# GC Semi VOA (Continued)

Prep Batch: 152340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	8011	
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	8011	
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	8011	
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	8011	
240-31386-23	ALB039;FB2:W111213	Total/NA	Water	8011	
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	8011	
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	8011	
LCS 480-152340/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 480-152340/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 480-152340/1-A	Method Blank	Total/NA	Water	8011	

### Metals

Prep Batch: 109802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-1	ALB039:MW2SG:G111113	Total Recoverable	Water	3005A	
240-31386-1 MS	ALB039:MW2SG:G111113	Total Recoverable	Water	3005A	
240-31386-1 MSD	ALB039:MW2SG:G111113	Total Recoverable	Water	3005A	
240-31386-2	ALB039:MW2SB:G111113	Total Recoverable	Water	3005A	
240-31386-3	ALB039:MW3SBA:G111113	Total Recoverable	Water	3005A	
240-31386-4	ALB039:MW4SG:G111113	Total Recoverable	Water	3005A	
240-31386-5	ALB039:MW4SB:G111113	Total Recoverable	Water	3005A	
240-31386-6	ALB039:MW8\$B:G111113	Total Recoverable	Water	3005A	
240-31386-7	ALB039:MW9SB:G111113	Total Recoverable	Water	3005A	
240-31386-8	ALB039:MW6SB:G111113	Total Recoverable	Water	3005A	
240-31386-9	ALB039:MW10SG:G111113	Total Recoverable	Water	3005A	
240-31386-10	ALB039:MW5SG:G111113	Total Recoverable	Water	3005A	
240-31386-11	ALB039:MW5SB:G111113	Total Recoverable	Water	3005A	
240-31386-12	ALB039:FBI:G111113	Total Recoverable	Water	3005A	
240-31386-13	ALB039:MW7SB:G111213	Total Recoverable	Water	3005A	
240-31386-15	ALB039:MW7SB:G111213A	Total Recoverable	Water	3005A	
240-31386-16	ALB039:MW7SG:G111213	Total Recoverable	Water	3005A	
240-31386-17	ALB039:MW7SG:G111213A	Total Recoverable	Water	3005A	
240-31386-18	ALB039:MW17B:G111213	Total Recoverable	Water	3005A	
240-31386-19	ALB039:MW15SB:G111213	Total Recoverable	Water	3005A	
240-31386-20	ALB039:MW16SB:G111213	Total Recoverable	Water	3005A	
LCS 240-109802/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-109802/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 109818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-21	ALB039:MW16DB:G111213	Total Recoverable	Water	3005A	
240-31386-21 MS	ALB039:MW16DB:G111213	Total Recoverable	Water	3005A	
240-31386-21 MSD	ALB039:MW16DB:G111213	Total Recoverable	Water	3005A	
240-31386-22	ALB039;MW9DB;G111213	Total Recoverable	Water	3005A	
240-31386-23	ALB039:FB2:W111213	Total Recoverable	Water	3005A	
240-31386-24	ALB039:RW4:W111213	Total Recoverable	Water	3005A	
240-31386-25	ALB039:RW4:W111213A	Total Recoverable	Water	3005A	
LCS 240-109818/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-109818/1-A	Method Blank	Total Recoverable	Water	3005A	

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

# Metals (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
240-31386-1	ALB039:MW2SG:G111113	Total Recoverable	Water	6020	10980
240-31386-1 MS	ALB039:MW2SG:G111113	Total Recoverable	Water	6020	10980
240-31386-1 MSD	ALB039:MW2SG:G111113	Total Recoverable	Water	6020	10980
240-31386-2	ALB039:MW2SB:G111113	Total Recoverable	Water	6020	10980
240-31386-3	ALB039:MW3SBA:G111113	Total Recoverable	Water	6020	10980
240-31386-4	ALB039:MW4SG:G111113	Total Recoverable	Water	6020	10980
240-31386-5	ALB039:MW4SB:G111113	Total Recoverable	Water	6020	10980
240-31386-6	ALB039:MW8SB:G111113	Total Recoverable	Water	6020	10980
240-31386-7	ALB039:MW9SB:G111113	Total Recoverable	Water	6020	10980
240-31386-8	ALB039:MW6SB:G111113	Total Recoverable	Water	6020	10980
240-31386-9	ALB039:MW10SG:G111113	Total Recoverable	Water	6020	10980
240-31386-10	ALB039:MW5SG:G111113	Total Recoverable	Water	6020	10980
240-31386-11	ALB039:MW5SB:G111113	Total Recoverable	Water	6020	10980
240-31386-12	ALB039:FBI:G111113	Total Recoverable	Water	6020	10980
240-31386-13	ALB039:MW7SB:G111213	Total Recoverable	Water	6020	10980
240-31386-15	ALB039:MW7SB:G111213A	Total Recoverable	Water	6020	10980
240-31386-16	ALB039:MW7SG:G111213	Total Recoverable	Water	6020	10980
240-31386-17	ALB039;MW7SG:G111213A	Total Recoverable	Water	6020	10980
240-31386-18	ALB039:MW17B:G111213	Total Recoverable	Water	6020	10980
240-31386-19	ALB039:MW15SB:G111213	Total Recoverable	Water	6020	10980
240-31386-20	ALB039:MW16SB:G111213	Total Recoverable	Water	6020	10980
240-31386-21	ALB039:MW16DB:G111213	Total Recoverable	Water	6020	10981
240-31386-21 MS	ALB039:MW16DB:G111213	Total Recoverable	Water	6020	10981
240-31386-21 MSD	ALB039:MW16DB:G111213	Total Recoverable	Water	6020	10981
240-31386-22	ALB039:MW9DB:G111213	Total Recoverable	Water	6020	10981
240-31386-23	ALB039:FB2:W111213	Total Recoverable	Water	6020	10981
240-31386-24	ALB039:RW4:W111213	Total Recoverable	Water	6020	10981
240-31386-25	ALB039:RW4:W111213A	Total Recoverable	Water	6020	10981
LCS 240-109802/2-A	Lab Control Sample	Total Recoverable	Water	6020	10980
_CS 240-109818/2-A	Lab Control Sample	Total Recoverable	Water	6020	10981
MB 240-109802/1-A	Method Blank	Total Recoverable	Water	6020	10980
MB 240-109818/1-A	Method Blank	Total Recoverable	Water	6020	10981

### Analysis Batch: 110607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-21 MS	ALB039:MW16DB:G111213	Total Recoverable	Water	6020	109818
240-31386-21 MSD	ALB039:MW16DB:G111213	Total Recoverable	Water	6020	109818
240-31386-22	ALB039:MW9DB:G111213	Total Recoverable	Water	6020	109818
240-31386-24	ALB039:RW4:W111213	Total Recoverable	Water	6020	109818
240-31386-25	ALB039:RW4:W111213A	Total Recoverable	Water	6020	109818

### **General Chemistry**

### Analysis Batch: 109804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	160.2	
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	160,2	
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	160.2	
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	160.2	
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	160.2	

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill

**General Chemistry (Continued)** Analysis Batch: 109804 (Continued)

Client Sample ID

ALB039:MW8SB:G111113

ALB039:MW9SB:G111113

ALB039:MW6SB:G111113

ALB039:MW6SB:G111113

ALB039:MW10SG:G111113

ALB039:MW5SG:G111113

ALB039:MW5SB:G111113

ALB039:MW7SB:G111213

ALB039:MW7SB:G111213A

ALB039:MW7SG:G111213

ALB039;MW7SG:G111213A

ALB039:FBI:G111113

Lab Control Sample

Method Blank

Lab Sample ID

240-31386-6

240-31386-7

240-31386-8

240-31386-9

240-31386-10

240-31386-11

240-31386-12

240-31386-13

240-31386-15

240-31386-16

240-31386-17

LCS 240-109804/2

MB 240-109804/1

240-31386-8 DU

TestAmerica Job ID: 240-31386-1

Method

160.2

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Prep Batch





















Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	160.2	
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	160.2	
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	160.2	
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	160.2	
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	160.2	
240-31386-23	ALB039:FB2:W111213	Total/NA	Water	160.2	
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	160.2	
240-31386-24 DU	ALB039:RW4:W111213	Total/NA	Water	160.2	
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	160.2	
LCS 240-110049/2	Lab Control Sample	Total/NA	Water	160.2	
MB 240-110049/1	Method Blank	Total/NA	Water	160.2	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	350.3	
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	350.3	
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	350.3	
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	350.3	
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	350.3	
240-31386-6	ALB039:MW8SB:G111113	Total/NA	Water	350.3	
240-31386-6 MS	ALB039:MW8SB:G111113	Total/NA	Water	350.3	
240-31386-6 MSD	ALB039:MW8SB:G111113	Total/NA	Water	350.3	
240-31386-10	ALB039:MW5\$G:G111113	Total/NA	Water	350.3	
240-31386-11	ALB039:MW5SB:G111113	Total/NA	Water	350.3	
240-31386-12	ALB039:FBI:G111113	Total/NA	Water	350.3	
240-31386-13	ALB039:MW7SB:G111213	Total/NA	Water	350.3	
240-31386-15	ALB039:MW7SB:G111213A	Total/NA	Water	350.3	
LCS 240-110118/8	Lab Control Sample	Total/NA	Water	350.3	
MB 240-110118/7	Method Blank	Total/NA	Water	350.3	

Analysis Batch: 110414

	– Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	240-31386-17	ALB039:MW7SG:G111213A	Total/NA	Water	350.3	
I	240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	350.3	

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

























### **General Chemistry (Continued)**

### Analysis Batch: 110414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	350.3	
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	350.3	
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	350.3	
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	350.3	
240-31386-23	ALB039:FB2:W111213	Total/NA	Water	350.3	
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	350.3	
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	350.3	
LCS 240-110414/8	Lab Control Sample	Total/NA	Water	350.3	
MB 240-110414/7	Method Blank	Total/NA	Water	350.3	

### Analysis Batch: 111362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-7	ALB039:MW9SB:G111113	Total/NA	Water	350,3	
240-31386-8	ALB039:MW6SB:G111113	Total/NA	Water	350.3	
240-31386-9	ALB039:MW10SG:G111113	Total/NA	Water	350.3	
240-31386-16	ALB039:MW7SG:G111213	Total/NA	Water	350.3	
LCS 240-111362/8	Lab Control Sample	Total/NA	Water	350.3	
MB 240-111362/7	Method Blank	Total/NA	Water	350,3	

### Field Service / Mobile Lab

### Analysis Batch: 110052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-1	ALB039:MW2SG:G111113	Total/NA	Water	Field Sampling	
240-31386-2	ALB039:MW2SB:G111113	Total/NA	Water	Field Sampling	
240-31386-3	ALB039:MW3SBA:G111113	Total/NA	Water	Field Sampling	
240-31386-4	ALB039:MW4SG:G111113	Total/NA	Water	Field Sampling	
240-31386-5	ALB039:MW4SB:G111113	Total/NA	Water	Field Sampling	
240-31386-6	ALB039:MW8SB:G111113	Total/NA	Water	Field Sampling	
240-31386-7	ALB039:MW9SB:G111113	Total/NA	Water	Field Sampling	
240-31386-8	ALB039:MW6SB:G111113	Total/NA	Water	Field Sampling	
240-31386-9	ALB039:MW10SG:G111113	Total/NA	Water	Field Sampling	
240-31386-10	ALB039:MW5SG:G111113	Total/NA	Water	Field Sampling	
240-31386-11	ALB039:MW5SB:G111113	Total/NA	Water	Field Sampling	

### Analysis Batch: 110056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31386-13	ALB039:MW7SB:G111213	Total/NA	Water	Field Sampling	
240-31386-15	ALB039:MW7\$B:G111213A	Total/NA	Water	Field Sampling	
240-31386-16	ALB039:MW7SG:G111213	Total/NA	Water	Field Sampling	
240-31386-17	ALB039:MW7SG:G111213A	Total/NA	Water	Field Sampling	
240-31386-18	ALB039:MW17B:G111213	Total/NA	Water	Field Sampling	
240-31386-19	ALB039:MW15SB:G111213	Total/NA	Water	Field Sampling	
240-31386-20	ALB039:MW16SB:G111213	Total/NA	Water	Field Sampling	
240-31386-21	ALB039:MW16DB:G111213	Total/NA	Water	Field Sampling	
240-31386-22	ALB039:MW9DB:G111213	Total/NA	Water	Field Sampling	
240-31386-24	ALB039:RW4:W111213	Total/NA	Water	Field Sampling	
240-31386-25	ALB039:RW4:W111213A	Total/NA	Water	Field Sampling	

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Client Sample ID: ALB039:MW2SG:G111113

Date Collected: 11/11/13 09:03 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-1

Matrix: Water

Batch Batch Dilution Batch Prepared Method Factor or Analyzed Analyst Lab Prep Type Туре Run Number Total/NA Analysis 8260B 110657 11/20/13 18:40 LRW TAL CAN Total/NA 11/15/13 10:44 CMD TAL BUF Prep 8011 152339 Total/NA 8011 152324 11/15/13 13:20 CMD TAL BUF **Analysis** 1 3005A TAL CAN Total Recoverable Prep 109802 11/14/13 08:53 LPM 6020 TAL CAN Total Recoverable Analysis 110475. 11/18/13 20:04 RKT 1 109804 TAL CAN Total/NA Analysis 160.2 1 11/14/13 09:01 LCN TAL CAN Total/NA Analysis 350.3 1 110118 11/15/13 10:41 JAK

110052

11/11/13 09:03

Client Sample ID: ALB039:MW2SB:G111113

Field Sampling

Analysis

Date Collected: 11/11/13 09:28

Date Received: 11/13/13 09:15

Total/NA

Lab Sample ID: 240-31386-2

TAL CAN

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number or Analyzed Analyst Type Run Lab TAL CAN 8260B LRW Total/NA Analysis 1 110657 11/20/13 19:02 TAL BUF Total/NA Prep 8011 152339 11/15/13 10:44 CMD Total/NA 8011 152324 11/15/13 13:46 CMD TAL BUF Analysis TAL CAN Total Recoverable Ргер 3005A 109802 11/14/13 08:53 LPM TAL CAN Total Recoverable Analysis 6020 1 110475 11/18/13 20:20 RKT Total/NA 160.2 11/14/13 09:01 TAL CAN Analysis 1 109804 LCN Total/NA Analysis 350.3 110118 11/15/13 10:42 TAL CAN TAL CAN Total/NA Analysis Field Sampling 110052 11/11/13 09:28

Client Sample ID: ALB039:MW3SBA:G111113

Date Collected: 11/11/13 09:59

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110657	11/20/13 19:25	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 14:11	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 20:24	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 10:42	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 09:59		TAL CAN

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-4

Matrix: Water

Client Sample ID: ALB039:MW4SG:G111113

Date Collected: 11/11/13 10:27 Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 01:43	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 14:37	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 20:28	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 10:42	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 10:27		TAL CAN

Client Sample ID: ALB039:MW4SB:G111113

Date Collected: 11/11/13 10:55

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-5

Matrix: Water

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Analyst Lab Prep Type Туре Run LRW TAL CAN Total/NA Analysis 8260B 110660 11/21/13 02:05 Total/NA Prep 8011 152339 11/15/13 10:44 CMD TAL BUF Total/NA Analysis 8011 1 152324 11/15/13 15:27 CMD TAL BUF 3005A 109802 11/14/13 08:53 LPM TAL CAN Total Recoverable Prep 11/18/13 20:32 TAL CAN Total Recoverable 6020 110475 **RKT** Analysis 1 11/14/13 09:01 TAL CAN Total/NA Analysis 160.2 1 109804 LCN Total/NA 350.3 10 11/15/13 10:43 TAL CAN Analysis Total/NA Analysis Field Sampling 110052 11/11/13 10:55 TAL CAN 1

Client Sample ID: ALB039:MW8SB:G111113

Date Collected: 11/11/13 11:28

Date Received: 11/13/13 09:15

Lab	Sample	ID:	240-31386-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			110660	11/21/13 02:27	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 15:53	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 20:36	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 10:55	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 11:28		TAL CAN

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-8

Lab Sample ID: 240-31386-9

Matrix: Water

Matrix: Water

Lab Sample ID: 240-31386-7 Matrix: Water

4

5

-5

8

13

Client Sample ID: ALB039:MW9SB:G111113

Date Collected: 11/11/13 12:03

Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 02:50	LRW	TAL CAN
Total/NA	Ргер	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 16:18	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 20:40	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	111362	11/25/13 11:04	JMB	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 12:03		TAL CAN

Client Sample ID: ALB039:MW6SB:G111113

Date Collected: 11/11/13 12:38

Date Received: 11/13/13 09:15

Prepared Batch Dilution Batch Batch or Analyzed Analyst Lab Method Run Factor Number Prep Type Type TAL CAN 110660 11/21/13 03:12 LRW Total/NA Analysis 8260B TAL BUF Total/NA 8011 152339 11/15/13 10:44 CMD Prep TAL BUF Total/NA Analysis 8011 152324 11/15/13 16:44 CMD TAL CAN 3005A 109802 11/14/13 08:53 LPM Total Recoverable Ргер TAL CAN 110475 11/18/13 20:52 RKT 6020 1 Total Recoverable Analysis LCN TAL CAN 1 109804 11/14/13 09:01 Total/NA Analysis 160.2 TAL CAN 11/25/13 11:09 **JMB** 350.3 111362 Total/NA Analysis Analysis 110052 11/11/13 12:38 TAL CAN Total/NA Field Sampling

Client Sample ID: ALB039:MW10SG:G111113

Date Collected: 11/11/13 12:53

Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 03:35	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 17:09	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 20:56	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	111362	11/25/13 11:14	JMB	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 12:53		TAL CAN

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-10

Matrix: Water

Matrix: Water

Date Collected: 11/11/13 13:29

Client Sample ID: ALB039:MW5SG:G111113

Date Received: 11/13/13 09:15

••	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1 -	110660	11/21/13 03:57	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 17:34	CMD	TAL BUF
Total Recoverable	Ргер	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:00	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 15:19	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 13:29		TAL CAN

Client Sample ID: ALB039:MW5SB:G111113

Date Collected: 11/11/13 13:55

Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 04:19	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 17:59	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:04	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 15:38	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110052	11/11/13 13:55		TAL CAN

Client Sample ID: ALB039:FBI:G111113

Date Collected: 11/11/13 14:10

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-12

Lab Sample ID: 240-31386-11

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 04:42	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 18:25	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:07	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 15:43	JAK	TAL CAN

Client Sample ID: ALB039:MW7SB:G111213

Date Collected: 11/12/13 07:19

Date Received: 11/13/13 09:15

Lab Sample	ID:	240-3138	36-13
		Matrix:	Water

Ī	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 05:04	LRW	TAL CAN

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

### Client Sample ID: ALB039:MW7SB:G111213

Date Collected: 11/12/13 07:19 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-13

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 18:50	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:11	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 15:51	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 07:19		TAL CAN

Lab Sample ID: 240-31386-14

Matrix: Water

Client Sample ID: ALB039:TBI:W111213

Date Collected: 11/12/13 00:00 Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 05:26	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 19:15	CMD	TAL BUF

Client Sample ID: ALB039:MW7SB:G111213A

Date Collected: 11/12/13 07:19

Date Received: 11/13/13 09:15

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			110660	11/21/13 05:48	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 20:05	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:15	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110118	11/15/13 15:57	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 07:19		TAL CAN

Client Sample ID: ALB039:MW7SG:G111213

Date Collected: 11/12/13 07:56

Date Received: 11/13/13 09:15

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 06:10	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 20:31	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:19	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-16

Matrix: Water

Client Sample ID: ALB039:MW7SG:G111213

Date Collected: 11/12/13 07:56 Date Received: 11/13/13 09:15

		Batch	Batch		Dilution	Batch	Prepared		
-	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	350.3		1	111362	11/25/13 11:23	JMB	TAL CAN
	Total/NA	Analysis	Field Sampling		1	110056	11/12/13 07:56		TAL CAN

Client Sample ID: ALB039:MW7SG:G111213A

Date Collected: 11/12/13 07:56

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-17

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			110660	11/21/13 06:33	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 20:56	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:23	RKT	TAL CAN
Total/NA	Analysis	160.2		1	109804	11/14/13 09:01	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 16:35	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 07:56		TAL CAN

Client Sample ID: ALB039:MW17B:G111213

Date Collected: 11/12/13 08:31

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-18

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	-		110660	11/21/13 06:55	LRW	TAL CAN
Total/NA	Prep	8011			152339	11/15/13 10:44	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 21:21	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:27	RKT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 16:35	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 08:31		TAL CAN

Client Sample ID: ALB039:MW15SB:G111213

Date Collected: 11/12/13 09:04

Date Received: 11/13/13 09:15

_ab Samp	ole ID:	240-31	386-19
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 07:18	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 23:27	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:39	RKT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN

Client: Hull & Associates, Inc.

Date Collected: 11/12/13 09:04

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-19

is cample in 240 01000 in

Matrix: Water

Date Received: 11/13/13 09:15

Batch Batch Dilution Batch Prepared

Prep Type Method Rup Factor Number or Analyzed Analyst Lab

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	350.3		1	110414	11/18/13 16:55	JAK	TAL CAN	-
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 09:04		TAL CAN	

Client Sample ID: ALB039:MW16SB:G111213

Client Sample ID: ALB039:MW15SB:G111213

Date Collected: 11/12/13 09:32

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-20

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B			110660	11/21/13 07:40	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/15/13 23:53	CMD	TAL BUF
Total Recoverable	Prep	3005A			109802	11/14/13 08:53	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 21:43	RKT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 16:55	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 09:32		TAL CAN

Client Sample ID: ALB039:MW16DB:G111213

Date Collected: 11/12/13 09:55

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-21

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 08:02	LRW	TAL CAN
Total/NA	Prep	8011	•		152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/16/13 00:18	CMD	TAL BUF
Total Recoverable	Prep	3005A			109818	11/14/13 09:18	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/18/13 23:45	RKT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 16:55	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 09:55		TAL CAN

Client Sample ID: ALB039:MW9DB:G111213

Date Collected: 11/12/13 10:26

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-22

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110660	11/21/13 08:24	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/16/13 00:43	CMD	TAL BUF
Total Recoverable	Prep	3005A			109818	11/14/13 09:18	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/19/13 00:09	RKT	TAL CAN
Total Recoverable	Analysis	6020		1	110607	11/19/13 17:13	NJT	TAL CAN

Client: Hull & Associates, Inc. Project/Site: Albion-Sheridan Landfill TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-22

Matrix: Water

Client Sample ID: ALB039:MW9DB:G111213

Date Collected: 11/12/13 10:26 Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1 -	110049	11/15/13 11:19	LĊN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 17:27	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 10:26		TAL CAN

Client Sample ID: ALB039:FB2:W111213

Date Collected: 11/12/13 11:10 Date Received: 11/13/13 09:15 Lab Sample ID: 240-31386-23

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110890	11/21/13 13:17	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/16/13 01:08	CMD	TAL BUF
Total Recoverable	Prep	3005A			109818	11/14/13 09:18	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/19/13 00:12	RKT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 17:27	JAK	TAL CAN

Client Sample ID: ALB039:RW4:W111213

Date Collected: 11/12/13 10:45

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-24

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110890	11/21/13 13:39	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/16/13 01:34	CMD	TAL BUF
Total Recoverable	Prep	3005A			109818	11/14/13 09:18	LPM	TAL CAN
Total Recoverable	Analysis	6020		1	110475	11/19/13 00:16	RKT	TAL CAN
Total Recoverable	Analysis	6020		1	110607	11/19/13 17:17	NJT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 17:27	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 10:45		TAL CAN

Client Sample ID: ALB039:RW4:W111213A

Date Collected: 11/12/13 10:45

Date Received: 11/13/13 09:15

Lab Sample ID: 240-31386-25

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	110890	11/21/13 14:02	LRW	TAL CAN
Total/NA	Prep	8011			152340	11/15/13 10:45	CMD	TAL BUF
Total/NA	Analysis	8011		1	152324	11/16/13 01:59	CMD	TAL BUF
Total Recoverable	Analysis	6020		1	110475	11/19/13 00:20	RKT	TAL CAN
Total Recoverable	Prep	3005A			109818	11/14/13 09:18	LPM	TAL CAN

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

TestAmerica Job ID: 240-31386-1

Lab Sample ID: 240-31386-25

Matrix: Water

Client Sample ID: ALB039:RW4:W111213A

Date Collected: 11/12/13 10:45 Date Received: 11/13/13 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		1 -	110607	11/19/13 17:21	NJT	TAL CAN
Total/NA	Analysis	160.2		1	110049	11/15/13 11:19	LCN	TAL CAN
Total/NA	Analysis	350.3		1	110414	11/18/13 17:27	JAK	TAL CAN
Total/NA	Analysis	Field Sampling		1	110056	11/12/13 10:45		TAL CAN

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396























# **Certification Summary**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

# TestAmerica Job ID: 240-31386-1

### Laboratory: TestAmerica Canton

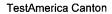
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13 *
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14 *
Kentucky	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
⊃ennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6	•	08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14 *
West Virginia DEP	State Program	3	210	12-31-13 *
Wisconsin	State Program	5	999518190	08-31-14

### Laboratory: TestAmerica Buffalo

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
lowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13 *
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13 *
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14

Page 62 of 72





























<sup>\*</sup> Expired certification is currently pending renewal and is considered valid.

# **Certification Summary**

Client: Hull & Associates, Inc.

Project/Site: Albion-Sheridan Landfill

# TestAmerica Job ID: 240-31386-1

### Laboratory: TestAmerica Buffalo (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14





























TestAmerica Laboratories, Inc.

# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-31386 Chain of Custody

TestAmerica Canton Sample Re	ccipt Form/Narrative	Logi	in#:3138U
Canton Facility Client			Cooler unpacked by:
			to
Cooler Received on 11-13-13 FedEx: 1st Grd (Exp UPS FA	Opened on 11-13	out America Courier	· · · · · · · · · · · · · · · · · · ·
Test America Cooler #	Foam Box Client Cooler	Box Other	Offici
TestAmerica Cooler # Packing material used:Bubb	le-Wran Foam Plastic-Bag	-NoneOther ·	
COOLANT: WEFIGE	Blue Ice Dry Ice Water	None	
1. Cooler temperature upon receip			
IR GUN# A (CF+0 °C) O	oserved Cooler Temp°C	Corrected Cooler T	emp°C
IR GUN#4 (CF -1 °C) O1	oserved Cooler Temp°C	Corrected Cooler T	
IR GUN# 5 (CF +1 °C) O	oserved Cooler Temp°C	Corrected Cooler T	
IR GUN# 8 (CF +1 °C) O	oserved Cooler Temp°C	Corrected Cooler T	
	de of the cooler(s)? If Yes Qu		
	side of the cooler(s) signed & dated		Do NA NA CO
<ul><li>-Were custody seals on the bot</li><li>3. Shippers' packing slip attached</li></ul>			es No
4. Did custody papers accompany			s No
	uished & signed in the appropriate p		s No
o. Weste mis energy purpose sermid	money of tagener in the appropriate p		_
6. Did all bottles arrive in good co	ndition (Unbroken)?	· Ye	es (No
7. Could all bottle labels be recon-		\(\bar{\gamma}\)	9 No .
8. Were correct bottle(s) used for		_	® No
9. Sufficient quantity received to p		(= -	® No
10. Were sample(s) at the correct p	H upon receipt?		No NA pH Strip Lot# HC391902
11. Were VOAs on the COC?	*****		No
12. Were air bubbles > 6 mm in any			es OW NA SP No
13. Was a trip blank present in the	cooler(s)?		38, 140
Contacted PM Da	te by	via Verbal `	Voice Mail Other
Concerning			
14 CILLIDI OR CHOTODIV 6 CA	MONT D DIOCODED ANGIES		Samples processed by:
14. CHAIN OF CUSTODY & SA	WIPLE DISCREPANCIES		
-			
		<del></del>	
		·	
15. SAMPLE CONDITION			
Sample(s)	<u> </u>		ding time had expired.
Sample(s) (1440) MWO9D			ed in a broken container.
Sample(s)	were received	i with bubble >6 mm	in diameter. (Notify PM)
16. SAMPLE PRESERVATION			
Sample(s)		were fi	urther preserved in the laboratory.
Time preserved: Pre	servative(s) added/Lot number(s):_		

Ref: SOP NC-SC-0005, Sample Receiving C:\Users\livengoodc\AppData\Local\Microsoft\Windows\Temporary Internet Files\OLKD16\Wi-NC-099G-111113 Cooler Receipt Form (2).doc rls

Cooler#	IR Gun#	Observed Temp	Corrected Temp	Coolant
client	A	1.4	1.8	Ice
Chent	1	1-2	1-2	1
Chent		2.6	2-6	
Chent		1-2	1-2	
		1.4	]. \	
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Form\_page 2 - Multiple Coolers,doc
Revision 3, 3/18/13 ris

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Hull			СНА	IN OF (	CUSTO	DDY	RE	CO	RD						PAC	GE C	F <u>3</u>	
& associates, i	inc.														NO	. 12473	}	
6397 Emerald Pkwy 6435 Castieway W. Dr.	Mason, OH□ Bedford, OH□ 4770 Duke Dr. 4 Hemisphere V Suite 300 Bedford, OH 4 Mason, OH 45040 P: (440) 232-99	4146 Šu	ledo, OH 01 Gleridais ite 300 ledo, OH 4	Suite 32 Pittsbur	ah. PA 15205	Or.	~			_				ANAL	YSES			7
Dublin, OH 43016 Indianapolis, IN 46250 P: (614) 793-8777 P: (800) 241-7173 F: (614) 793-9070 F: (614) 793-9070	Mason, OH 45040 P: (440) 232-99 P: (513) 459-9869 F: (440) 232-99	48 P:	ledo, OH 4: (419) 385-2 (419) 385-5	018 P: (412)	) 446-0315 ) 446-0324	$\angle$	PRESER	VATIVE	s	15	16	رے/	14	/B				/
REPORT TO: RYAN IM	lurphy	Laine	PLE TYPES	PRESER			METALS	_	/		/		/			///	//	
Client: CITY OF ALB		A-All	PLE TYPES RESTOS DIMENT	A-Cool only, <4 deg. ( B-HNO <sub>3</sub> pH<2 C-H <sub>2</sub> SO <sub>4</sub> pH<2	C H-EDTA I-5ml 1:1 HCL J-None	<del></del>	F - Filtered N - Not filtered B - Both											
Site: ALIBION LAND		—   G G	ROUNDWATER RODUCT		V 04-36-4	ark			/ /	/ ,	/ <sub>}</sub>	/ /	/ /	/ ,	/ /	/ /. /		
	Phase:	s-sc W-w z-or	DIL NATER THERS	D - NaOH pH>12 E-ZnAcetata + NaOH F-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (0.008) G-HCL pH <2	M - Methenoi S - Sodium bis	ulfale	\(\display \)	?/		Ŋ,	Kris J	∜						
Samplers: MIKE Chee			Ali san	mples are kept at 4 dec		/	<i>\%</i> }/	] ]		/	" Z	"	/ /	/ /	/ /			
PROJECT SAMPLE NO. LOCATION	SAMPLE TYPE & ID	NO. O	· )	) (()	LECTION E/TIME	$\angle$	Ž	<u>"                                    </u>	Decreed,	<u>Y</u>	red y		$\angle$	_	$\angle$	_ ~	OMMENTS	
ALBO39 : MWZSG :	6111113	9	N	11-11-13	ଫ୍ର	3	3	1	1	1								
ALBO39 MWZSB :	6111113	9	۲	11-11-13	0928	3	3	)	7	1								
ALBO39 MW3SBA :	6111113	9	<u>ل</u> م	11-11-13	0959	3	3	1	1	1						·		
ALBO39 : MWYSG :	6111113	9	١	11-11-13	1027	3	3	1	1	1								
ALBO39 MWYSB :	6111113	9	بر	11-11-13	1055	3	3	1	ı	1								
ALBO39 : MWESB :	6111113	9	يو .	11-11-13	<u> 1128</u>	3	3	ı	1	1								
ALBOSS : MW9SB :	6111113	9	<u>\</u>	11-11-13	1203	3	3	1	1	1								
ALBUZG : MWESB :	611113	9	ν	11-11-13	1238	3	3	1	1	1				<u> </u>				
ALBO39 : MW10SG :	611113	9	γ	11-11-13	1253	3	3	1_	1	1								
ALBO39 MWSSG :	6111113	9	<b>4</b>	11-11-13	1329	3	3	<u>i</u>	1	1								
ALBUSS MWSSB:	6111113	9	V	11-11-13	1355	3	3	l	1	1								
	: W111113	9	7	11-11-13	1410	3	3	l	l	)					<u> </u>			
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RELINQUISHED BY:	DATE:	RECEIVED	<del>"</del>	>	DATE: j )~	<u> 13:13</u>	915	-4	rbill Nu								<del></del>	
RELINQUISHED BY:		RECEIVED	FOR LAB E	SY:	DATE:			┤ʹʹ	140	,,	_							
	TIME				TIME:			٦	FON	ES: _							<del></del>	
COOLER TEMPERATURE AS RECEIVED:	°c	DISTRIBU WHI YEL PINI	TE -LAI LOW -LAI	B USE (MUST BE R B USE TAINED BY HULL	ETURNED WITH	REPORT)		<b>-</b> -	URN A	- ROUN	ID TIM	E:	550	1 1	DAYS		<del></del>	



















		18,12,26,12,14
Hrill	CHAIN OF CUSTODY RECORD	PAGE OF3 '
& associates, inc.		NO. <b>12474</b>
Dublin, OH □         Indianapolis, IN □         Mason, OH □         4 Hemisphers           6397 Emerald Pkwy         6435 Castleway W. Dr.         Suite 19         Suite 300         Suite 300         4 Hemisphers           Dublin, OH 43016         P: (614) 793-8777         P: (800) 241-7173         P: (513) 459-9677         P: (440) 232-9           F: (614) 793-9070         F: (614) 793-9070         F: (513) 459-9869         F: (440) 232-9	Way 3401 GlandaleNve, 300 Business Center Dr. 4146 Suite 300 Suite	ANALYSES  A) B
Client: City of ALBical Site: ALBica Landfill Project # ALBica S Phase: Samplers: MIRC Cherchil	SAMPLE TYPES PRESERVATIVES METALS  AAXR ACox only, 44 dag. C HEDTA CI-ASSESSTOS B-19(O) pH/2 I5m int H.Cl. D-SEDIMENT C-1-IS-02, H-C I5m int H.Cl. D-SEDIMENT C-1-IS-02, H-C II10 Mint H	
NO. LOCATION TYPE & ID	0 10-12-13	COMMENTS
ALBO39 : MW7JB : GII1213 ALBO39 : TB1 : WII1113	G P 11-11-13 _ 3 3 1 1 1 1 1 GF 19 3 3 3	
ALBO39 TB1 : W111113 ALBO39 MW75B : GILLZ13A	9 ~ 11-12-13 6719 3 3 1 1 1	
ALBO39 : MW736 : 6111213	9 12 11-12-13 0756 7 3 7 1 1	
ALBO39 MW736 G111213A	9 11-12-17 67-56 3 3 1 1 1	
ALRU39 : MW17B : G111213	9 10 11-12-13 0831 3 3 1 1 1	
ALB039 : MW155B: G111213	9 11-12-13 09-4 3 3 1 1 1	
ALBO39 : MW165B : G111213	9 12 11-12-13 6932 3 3 1 / /	
ALB039 : MW16DB : G111213	9 7 11-13 0965 3 3 1 1 (	
ALBO39 "MW903 : 6111213	9 12 11-12-13 1026 3 3 1 1 1	
ALB. 39 : FBZ : WILIZL3	9 12 1110 3 3 1 1 1	
ALBO39 : RWY : WILIZIS	9 10 11-12-13 1045 3 3 1 1 1	
RELINQUISHED BY: DATE: 11-12-13	RECEIVED BY:  DATE: 1/-12-13  Deliver To: 1/ESTAME!	2109
RELINQUISHED BY: DATE:	TIME: 1660  RECEIVED BY:  DATE: 11-13-13  Method of Delivery: FEOR	<u>×</u>
TIME:	TIME: Airbill Number.	<del></del>
RELINQUISHED BY: DATE:	RECEIVED FOR LAB BY: DATE: NOTES:	
COOLER TEMPERATURE AS RECEIVED:	DISTRIBUTION: WHITE -LAB USE (MUST BE RETURNED WITH REPORT) YELLOW -LAB USE PINK -RETAINED BY HULL  TURN AROUND TIME: 5 -	DAYS



H	ı ill				(	CHAI	N OF (	CUSTO	DDY	RE	COF	RD						PA	GE <u>3</u>	_ OF _	3	
	& associates,	inc.																NC	. 124	476		
Dublin, OH II 6397 Emerald Pkwy Suite 200 Dublin, OH 43016 P: (614) 793-8777 F: (614) 793-9070	Indianapolis, IN U 6435 Castleway W. Dr. Suite 119 Indianapolis, IN 46250 P: (800) 241-7173 F: (614) 793-9070	Suite 300 Mason, OH P: (513) 459 F: (513) 459	Dr. 4 Hen Bedfo 45040 P: (44 9-9677 F: (44	ord, OH III nisphere Ward, OH 4414 0) 232-9945 0) 232-9946	le Suit Tole	edo, OH 1 Glendale e 300 do, OH 43 419) 385-24	614 Pittsbu	righ. PA ☐ siness Center (20 rgh, PA 15205 c) 446-0315 ) 446-0324	or.	PRESER	VATIVES	s	6	16	<u> </u>	A	ANA	LYSES	—		_	7
Site: ▲᠘ Project #: ▲	Bion Larol BION LAROL PUBLIST MILLE Cher	_ Phase:_			A-AIR C - ASB D - SEC G - GRC P - PRC 5 - SOII W - WA Z - OTT-	ESTOS MENT DUNDWATER DUCT TER ERS All sam	A-Cool only, <4 dag. B-HNO3 pH<2 C-H2SO4 pH<2 D-NeOH pH>12 E-ZAACABIS + NaOH F-Na2S2 O3 (0.008) G-HCL pH <2 ples are kept at 4 de	I-5mi 1:1 HC J-None K-Stored in d I, pH>9 L-NH4Cl M-Metranol S-Sodium bis	lark	F-Filtered N-Not filtered B-Both	//	Afrend		w Li						//	/	
PROJECT NO.	SAMPLE LOCATION		SAMPLE TYPE & ID		NO. OF CONT.		DAT	LECTION TE/TIME	$\angle$	Z	<u>Z</u> ,	<b>P</b> '	<u>Z</u>	<i>Ş</i>	$\angle$	$\angle$	$\angle$	$\angle$		COMMI	ENTS	
ALBO39	: Rwy	: W111	213A		9	Ŋ	11-12-13	1045	3	3	į	l	1									
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RELINQUISHED BY			11-12-13	RE	CEIVED E	Y: FOE		DATE: //			De	eliver T	io: ブ	<u>ES71</u>	9mp	RIC	A					
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RELINQUISHED BY	r <b>.</b>	DATE:		— ~				DATE: //-/3-13 975				Method of Delivery: FROEX  Airbill Number:										
RELINQUISHED BY	r:	DATE:		RE	CEIVED F	OR LAB B	Y:	DATE:			┨ᢚ		-		-						_	
		TIME:						TIME:			7	ПОП	ES: _									
COOLER AS RECE	R TEMPERATURE EIVED:		ိင	Di	STRIBUT WHIT YELL PINK	E -LAB DW -LAB -RET	USE (MUST BE R USE AINED BY HULL	LETURNED WITH	REPORT)		π	URN A	- ROUN	ID TIM	 E:	5-0	!	DAYS				

















1-8







Temperature readings:					
Client Sample ID	<u>Lab ID</u>	Container Type	Container pH	Preservative Added (mls)	Lot#
ALB039:MW2SG:G111113	240-31386-H-1	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW2SG:G111113	240-31386-I-1	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW2SB:G111113	240-31386-H-2	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW2SB:G111113	240-31386-I-2	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW3SBA:G111113	240-31386-H-3	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW3SBA:G111113	240-31386-I-3	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW4SG:G111113	240-31386-H-4	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW4SG:G111113	240-31386-I-4	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW4SB:G111113	240-31386-H-5	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW4SB:G111113	240-31386-I-5	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW8SB:G111113	240-31386-H-6	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW8SB;G111113	240-31386-I-6	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW9SB:G111113	240-31386-H-7	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW9SB:G111113	240-31386-I-7	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW6SB:G111113	240-31386-H-8	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW6SB:G111113	240-31386-I-8	Plastic 500ml - with Nitric Acid	<2	<del></del>	
ALB039:MW10SG:G111113	240-31386-H-9	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW10SG:G111113	240-31386-I-9	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW5SG:G111113	240-31386-H-10	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW5SG:G111113	240-31386-I-10	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW5SB:G111113	240-31386-H-11	Plastic 500ml - with Sulfuric Acid	<2		<del></del>
ALB039:MW5SB:G111113	240-31386-I-11	Plastic 500ml - with Nitric Acid	<2		
ALB039:FBI:G111113	240-31386-H-12	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:FBI:G111113	240-31386-I-12	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW7SB:G111213	240-31386-H-13	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW7SB:G111213	240-31386-I-13	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW7SB:G111213A	240-31386-H-15	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW7SB;G111213A	240-31386-I-15	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW7SG:G111213	240-31386-H-16	Plastic 500ml - with Sulfuric Acid	<2		<u></u>
ALB039:MW7SG:G111213	240-31386-I-16	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW7SG:G111213A	240-31386-H-17	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW7SG:G111213A	240-31386-I-17	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW17B:G111213	240-31386-H-18	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW17B:G111213	240-31386-I-18	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW15SB:G111213	240-31386-H-19	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW15SB:G111213	240-31386-I-19	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW16SB:G111213	240-31386-H-20	Plastic 500ml - with Sulfuric Acid	<2		
Page 1 of 2					

<u>Client Sample ID</u>	<u>Lab ID</u>	Container Type	Container pH	Preservative Added (mls)	Lot#
ALB039:MW16SB:G111213	240-31386-I-20	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW16DB:G111213	240-31386-H-21	Plastic 500ml - with Sulfuric Acid	<2		<del></del>
ALB039:MW16DB:G111213	240-31386-I-21	Plastic 500ml - with Nitric Acid	<2		
ALB039:MW9DB:G111213	240-31386-G-22	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:MW9DB:G111213	240-31386-H-22	Plastic 500ml - with Nitric Acid	<2		
ALB039:FB2:W111213	240-31386-H-23	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:FB2:W111213	240-31386-I-23	Plastic 500ml - with Nitric Acid	<2		
ALB039:RW4:W111213	240-31386-H-24	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:RW4:W111213	240-31386-I-24	Plastic 500ml - with Nitric Acid	<2		
ALB039:RW4:W111213A	240-31386-H-25	Plastic 500ml - with Sulfuric Acid	<2		
ALB039:RW4:W111213A	240-31386-I-25	Plastic 500ml - with Nitric Acid	<2		<del></del>

























#### **Login Sample Receipt Checklist**

Client: Hull & Associates, Inc.

Job Number: 240-31386-1

Login Number: 31386 List Number: 1

List Source: TestAmerica Buffalo List Creation: 11/14/13 08:44 PM

Creator: Goliszek, Gregory T		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	

True

True

True True

True

N/A

N/A





























needs

Multiphasic samples are not present.

Sampling Company provided.

Chlorine Residual checked.

Samples do not require splitting or compositing.

Samples received within 48 hours of sampling.

Samples requiring field filtration have been filtered in the field.

If necessary, staff have been informed of any short hold time or quick TAT

#### **APPENDIX B**

Groundwater Monitoring Well Field Data Sheets, Calibration Record Form, and Site Inspection Forms



MONITORING POINT:	MW2SB
DETECTION:	
ASSESSMENT:	

NAME   Albion-Sheridan Twp, Landfill   PACILITY INFORMATION   PROJECT NUMBER: ALB039   ADDRESS: 29975 East Erie Road, Albion, Michigan 49224   TELEPHONE: (517)629-5535		_		ASSESSME	=N1:				
ADDRESS: 29975 East Erle Road, Albion, Michigan 49224  Lerry Schmidt    CONTACT:   Lerry Schmidt   Lerry Schmi		FACILITY INFOR	RMATION		¥ **				
ADDRESS: 29975 East Erle Road, Albion, Michigan 49224  Lerry Schmidt    CONTACT:   Lerry Schmidt   Lerry Schmi	NAME: Albion-Sheridan Twp.	. Landfill	PROJECT NU	JMBER:	ALB039				
MONITORING WELL DATA	·		TELEPHONE		(517)629-5535				
CONDITION OF WELL:   COOL	CONTACT: Leroy Schmidt				<u> </u>				
CONDITION OF WELL:   COOL		MONITORING W	ELL DATA	···	<del></del>				
STATIC WATER LEVEL (ATER BAMPLING)   For Casing Material/Diameter:   PVC 2"   977.55	COORDINATES: 7150			Carl					
CASING MATERIAL/DIAMETER:   PVC 2"   977.55"   STATIC LOEPTH (reson decurso surreace):   TOTAL DEPTH (reson decurso surreace):   TOTAL DEPTH (reson decurso surreace):   STATIC WATER LEVATION:   977.55"			CONDITION OF WELL.	Cooa	<del></del> -				
TOTAL DEPTH (PROM GROUND SURPACE):  SCREENED INTERVAL (INCLUDING SAND PACK):  SCREENED INTERVAL (INCLUDING SAND PACK):  SCREENED DEPTH (PROM TOP OF CASING):  SCREENED DEPTH (SCREEN ONLY):  SCREENED DEPTH (SCREEN ONLY):  977.55'			CASING MATERIAL (DIA)	METED	DVC 2"				
SCREENED INTERVAL (INCLUDING SAND PACK):   Shallow Bedrock   SCREENED DEPTH (IRROW TOP OF CABING):   912.62'-917.62'	***************************************	· -			77.55' - 12.62'-917.62'  20.26 75.1.29				
Shallow Bedrock   SCREENED DEPTH (screen only):   912.62-917.62'	·			•	977.00				
WEATHER:	,		•	-	012 62-017 62				
WEATHER:   OVECAST   SAMPLING METHOD:   MIND DIRECTION:   MIND D	SCREENED FORMATION.		·		912.02-917.02				
TEMPERATURE (*F): U2		WEATHER CON							
PERSONNEL PRESENT:	<del></del>				10 mp H				
MEASURED TOTAL DEPTH (FROM TOC): 62.40   STATIC WATER LEVEL (FROM TOC): 75.29	BAROMETRIC PRESSURE:	30-06.1	TEMPERATURE (°F):	<u> 42 </u>	<del></del>				
NOTES   STATIC WATER LEVEL (FROM TOC):   26.26		FIELD MEASURED P	ARAMETERS						
DATE OF PURGING:	PERSONNEL PRESENT:	m	Ke charchol						
DATE OF PURGING:	MEASURED TOTAL DEPTH (FROM TO	oc): 62.40	STATIC WATER LEVEL	(FROM TOC):	26.26				
DATE OF PURGING: 1/1/13 PURGING METHOD: 1/1/13 PURGING RATE: 300 m/ / m/  WELL VOLUMES PURGED    Initial   1	VOLUME OF STATIC WATER:		GROUNDWATER ELEVA	ATION:	751.29				
DATE OF PURGING: 1/1/13 PURGING METHOD: 1/1/13 PURGING RATE: 300 m/ / m/  WELL VOLUMES PURGED    Initial   1		PURGING D	ΔΤΔ		<u> </u>				
Well volumes purged   Well casing   Gallons Per Foot   Feet of Standing   3 Well   Total Volume to   Diameter (in.)   of Depth   Water   Volumes   Purge (Gal.)	PURGING METHOD: MICOPURGE PURG TIME OF PURGING: 09/3								
Initial   1   2   3   4   5   6/Final	FUNGING WIL. 300 mi	mi	VOLONIL I ONGLD.	1123 3	7//07-				
Initial   1   2   3   4   5   6/Final	WELL VOLUMES	PURCED	VOLUME TO BUD	GE CALCULA	ATION TABLE				
Time 9/13 0922 6925 0926 0926 0926 0926 0926 0926 0926 0926		<del>                                     </del>							
Water Level   ZC 24   U 24   ZC 24   U 24   ZC 24   DH			l I	•					
DH   7.3  6.30 6.27 6.24   6.24   6.24   7.11   7		<del>                                     </del>							
Temp.   13 -   11   11   11   11   11   11		<del></del>	<del></del>						
Spec. Cond.   480   932   946   950   950   950   6   1.469   X   X   X   X   X   X   X   X   X		<del>                                     </del>			<del></del>				
Corr. Cond.   Redox Pot.   71   47   46   47   47   47   47   47   47		<del> </del>							
Redox Pot.		130	1,409	^					
D.O. 14.56 0 0 0 0 0 Turbidity 5 2 2 3 3  SAMPLING DATA  DATE/TIME OF SAMPLING: 11/11/13 0928 SAMPLING RATE (IF USING DEDICATED PUMP): STATIC WATER LEVEL (AFTER SAMPLING): NOTES	1.0	<u>                                      </u>							
SAMPLING DATA  DATE/TIME OF SAMPLING: 1//1/3 0928 SAMPLING RATE (IF USING DEDICATED PUMP): —  SAMPLING METHOD: MICROPURGE PUMP STATIC WATER LEVEL (AFTER SAMPLING): —  NOTES									
SAMPLING DATA  DATE/TIME OF SAMPLING: 1//1/3 0928 SAMPLING RATE (IF USING DEDICATED PUMP): —  SAMPLING METHOD: MICROPURGE PUMP STATIC WATER LEVEL (AFTER SAMPLING): —  NOTES									
DATE/TIME OF SAMPLING: 11/11/13 0928 SAMPLING RATE (IF USING DEDICATED PUMP):  SAMPLING METHOD:	Trainiates 19 C C								
SAMPLING METHOD: MICTOPURGE PUMP STATIC WATER LEVEL (AFTER SAMPLING):		•							
NOTES	<del></del>	0928	•						
÷	SAMPLING METHOD:	ropurge Pump	STATIC WATER LEVEL	(AFTER SAMPLING)					
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CH4: O %LEL: O		NOTES	<del></del>						
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CH4: %LEL:	÷								
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CH4: O %LEL: O									
	EVELOCIVE CAS BEADING BRIDE TO STATIS MATER	R LEVEL; %CH4: O	%LEL:	. 0	_ ·				



MONITORING POINT: M	W2SG
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenu	e, Suite 300 🗆	Toledo, Oh	lo 43614								ASSESSMI	ENT:	
						FA	CILITY I	NFOR	MATION				
NAME:	Albion	-Sherid	an Twp	. Landfil	ł					PROJECT N	JMBER:	ALB03	9
ADDRESS:	29975	East E	rie Roa	d, Albio	n, Mich	igan 49	224			TELEPHONE	<b>:</b> :	(517)6	29-5535
CONTACT:	Leroy	Schmid	lt										
<del></del>						MOI	VITORIN	IG WE	LL DATA			-	
COORDINA	TES:			-		N			CONDITIO	N OF WELL:	Good		
				_		E							•
GROUND S	URFACE	ELEV	ATON:			· _			CASING M	ATERIAL/DIA	METER:		
TOTAL DEF	PTH (FROM	GROUND	SURFACE)	:		_			TOP OF CA	ASING ELEVA	TION:	977.91	1
SCREENE	INTER\	AL (INC	LUDING SA	ND PACK):		_			TOTAL DE	PTH (FROM TOP	OF CASING):		
SCREENE	FORMA	TION:							SCREENE	D DEPTH (scr	EEN ONLY):		
<del></del>			•			WE	ATHER	CON	DITIONS			_	·
WEATHER:			OV	cos	_				WIND DIRE	ECTION:	5 W 5-10	mp	i,
BAROMETI	RIC PRES	SSURE			0.06	<i>,</i> ;		•	TEMPERA		41		
							IEASUF	ED P	ARAMETER	S	<u> </u>		
PERSONNI	EL PRES	ENT:			•				_ cher				
MEASURE				oc):	33	2.4/3		11150		ATER LEVEL	(FROM TOC):	Z6.	03
VOLUME O			•	-7-		7.43 **		ı	GROUNDWATER ELEVATION: 957. 88				
<del></del>		<u>:</u>					PURG	ING D	ΔΤΔ	<del></del>			<del></del>
DATE OF P	URGING		111	1.10					****				
PURGING I			~// ^/ ^	<u> </u>	Pung		-		TIME OF P	URGING:	084	O	
PURGING I		400 n		<del>)</del>	1-0 Mg		-		VOLUME PURGED: 1.50 99/kms				
		750 7.	4/20	·	-		_		-		<del></del>	1,000	
	W	ELL VO	LUMES	PURG	ED				VOLUME TO PURGE CALCULATION TABLE				
	initial	1	2	3	4	5	6/Final		Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to
Time	0848	0857	0900	<i>0</i> 903			0903		Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)
Water Level	2605	2605	26.05	26 OS-			26.05		1	0.041	Х	X 3	
pН	7.45	704	706	702			702		2	0.163	Х	Х 3	
Temp.	14.2	10.8	10.3	1a.7			10.7		4	0.653	x	Х 3	
Spec. Cond.	792	605	605	60(			605		6	1.469	X	X 3	L
Corr. Cond.													
Redox Pot.	192	188	190	<i>1</i> ४९_			189						
D.O.	11.24	641	6.33	છ ટક			6.28						
Turbidity	7	3	2	2			, n_						
						•	SAMPL	ING D	ATA	· · · · · ·			
DATE/TIME	OF SAM	IPLING:	:_ <i>    </i>	1/13		0	903			RATE (IF USING			(100 pm/pm/
SAMPLING	METHO	D:	MIC	rupure	OA	mo			STATIC WA	ATER LEVEL	(AFTER SAMPLING)	:	<u> </u>
<del></del>	****						N	OTES					
EXPLOSIVE GAS I	READING PRI	OR TO STA	TIC WATER	R LEVEL:		%CH4:	_ 0		<del></del>	%LEL:	0		



MONITORING POINT:	MW3SBA
DETECTION:	
ASSESSMENT:	•

						-					AGGEGGIVIE	-141,				
						FA	CILITY I	NFOR	MATION							
NAME:	Albion-	Sherid	an Twp.	Landfil	<u> </u>				PROJECT NUMBER: ALB039				9			
ADDRESS:	29975	East E	rie Road	d, Albior	n, Michi	igan 49	224			TELEPHONE	:	(517)62	9-5535			
CONTACT:	Leroy	Schmid	t ·													
<del></del>						MOI	VITORIN	G WE	LL DATA	<del></del>	<del></del>					
COORDINA	ſES:		~			N				N OF WELL:	Good					
			-			E.										
GROUND SI	JRFACE	ELEV	ATON:		_	. –			CASING MATERIAL/DIAMETER:							
TOTAL DEPTH (FROM GROUND SURFACE):									TOP OF CASING ELEVATION: 979.84'							
					~				TOTAL DE	PTH (FROM TOP	OF CASING):	-				
SCREENED INTERVAL (INCLUDING SAND PACK): TOTAL DEPTH SCREENED FORMATION: SCREENED DE								D DEPTH (scr	EEN ONLY):							
<u>-</u>				<u> </u>		WF	ATHER	CONI	DITIONS	<del></del> -						
WEATHER:				<i>o</i> ver	re.t e			,,,,	WIND DIRI	ECTION:	WSW 5	-10 m	PH			
BAROMETR	IC PRES	SURF			0.07				TEMPERA		42					
D. I. COINE III							IEACUT	ED D	<del></del>							
DEDCOMBLE	ו חחבסי				F	IELD (	IEASUR	ED P/	ARAMETER	(3						
PERSONNE				).		304			STATIC W	ATER LEVEL	(EBUM LOC).	32,	18			
MEASURED			•	oc):	عر					VATER ELEVA		947				
VOLUME OF	SIAIR	VVAIL	_ r.							VALLI ELEVA		_/ 7	·010			
			• • •	, ,			PURG	NG D	ATA							
DATE OF PU			_///	11/13	<u> </u>	<del></del>	-		TIL 15 05 5	NIDON'S	6.41					
PURGING M		mice	COPUN	ge Pu	me_		-		TIME OF P		0944					
PURGING R	ATE:	400 1	m/m	1.)			-		VOLUME PURGED: <u>اده دا چاه کا کا کا</u>							
				. DUE 6	<u>.</u>					LIBAT TO DIE	205.041.01"	ATION	TABLE 7			
<u> </u>	T			PURG			o.r.					CALCULATION TABLE				
<del></del>	Initial	1	2	3	4	- 5	6/Final		Well casing	i I	Feet of Standing		Total Volume to			
Time	+ -	0953 32.15		0955			0515		Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)			
Water Level	+			32.15			32-15		1		X	X 3				
pH	7.35		10.9	1100			648		2		x x	X 3	———			
Temp.	10.8	<del></del>	_	<u> </u>			11.0		4		X	X 3				
Spec. Cond.	४०९	876	078	<i>3</i> 79			879		6	1.469	^	Λυ_				
Corr. Cond.	71	10	1/5	<b>ζ</b> ο			20									
Redox Pot.		17	18	σ			0									
D.O. Turbidity	7.54	<i>J</i> U	5	5			19									
Turbidity	1/3			1												
				,		. /	SAMPL	ING D		DATE (	,	١.				
DATE/TIME				1//13	· 	<u>_</u>	157			RATE (IFUSING						
SAMPLING I	VETHOE	): <b>(</b> 5	X MI	cropu.	rije	Pur	γ°		STATIC W	ATER LEVEL	(AFTER SAMPLING)		<u></u>			
							NO	OTES								
										·						
													<del></del>			
EXPLOSIVE GAS R	EADING PRIC	OR TO STA	TIC WATER	R LEVEL:		%CH4:			•	%LEL:	0					



MONITORING POINT	MW4SB
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue	, Suite 300 🗅	Toledo, Ohi	0 43814							ASSESSM	ENT:		
			-	<u> </u>		FA	CILITY INF	ORMATION	:-	<u></u>	-		
NAME:	Albion	-Sherida	an Twp.	Landfill					PROJECT N	UMBER:	ALB03	9	
ADDRESS:	29975	East E	Erie Road, Albion, Michigan 49224				9224		TELEPHONE: (517)629-5535				
CONTACT:	Leroy	Schmid	t										
						MO	NITORING	WELL DATA					
COORDINA	TES:	5600				N		CONDITIO	ON OF WELL:	Good			
		4300				E							
GROUND S	JRFACE	ELEVA	ATON:			CASING I	MATERIAL/DIA	METER:	PVC 2	1			
TOTAL DEP	TH (FROM	GROUND	SURFACE)	:				TOP OF (	CASING ELEV	ATION:	978.05	ı	
SCREENED	INTER\	/AL (INCL	UDING SA	ND PACK):		~			EPTH (FROM TOP	•			
SCREENED	FORMA	TION:			Shallo	w Bedi	ock	SCREEN	ED DEPTH (sc	REEN ONLY):	905.03	'-910.03'	
						W	ATHER C	ONDITIONS				-	
WEATHER:			ove	/CGJ :				WIND DIF	RECTION:	WSW B	-10 ,	np li	
BAROMETR	IC PRE	SSURE:	_		<i>0</i> 6 %			TEMPER	ATURE (°F):	42			
					F	IELD !	MEASURF	D PARAMETE	RS				
PERSONNE	I PRES	FNT <sup>.</sup>			1	1		ice che					
MEASURED			L (EROM T	oc).		75			VATER LEVEL	(FROM TOC):	30,5	19	
VOLUME OF			•			<del></del>			GROUNDWATER ELEVATION: 947.56				
TOLOIVIE OI							BUBOIN				<u> </u>		
DATE OF D	IDOINO			1. /.			PURGIN	JUATA					
DATE OF PURCING N			- 11/	11/13			_	TIME OF	PURGING:	1040			
PURGING M PURGING R			,,,	3c Pur	<del>70</del>		-	VOLUME PURGED: 1.25 99/loss					
FUNGING N	AIE.	300 p	1/1019				-	VOLONIE	I ONOLD.	1.23 91	1017		
	w	FIL VO	LUMES	PURG	FD.			VO	LUME TO PU	RGE CALCUL	ATION 7	ABLE	
	Initial	1	2	3	4	5	6/Final	Well casing	T	t Feet of Standing	1	Total Volume to	
Time	<del></del>	1049	1052	1055	•		1055	Diameter (in		Water	Volumes	Purge (Gal.)	
Water Level	+	30,11	3011	30,11			30,11	1	0.041	х	ХЗ		
рН		12.84		12.83			12.83	2	0.163	х	Х 3		
Temp.	9.6		105	10.5			105	4	0.653	х	X 3		
Spec. Cond.	3180		5910	5880			5380	6	1.469	х	Х 3		
Corr. Cond.													
Redox Pot.	24	-108	-105	102			102	i					
D.O.	10.50	6.27	6.20	6.17			6.17						
Turbidity	19	15	15	15			15						
							SAMPLIN	G DATA	· · · · · · · · · · · · · · · · · · ·	<del></del>			
DATE/TIME	OF SAM	IPLING:	11/1	11.3		100			G RATE (IF USIN	IG DEDICATED PUMF	·):	-	
SAMPLING			4.0	י <i>ן ן ש</i>	Pom				VATER LEVEL				
				, -/, <u>C</u>			NOT	FS					
							NOI	_0					
			<del></del>						<del></del>				
EXPLOSIVE GAS R	EADING PRI	OR TO STA	TIC WATER	R I EVEL		%CH4:	O		%LEL:	0		·	



MONITORING POINT:	MW4SG
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue,	Suite 300 🛭	Toledo, Ohl	o 43614						_		ASSESSM	ENT:	
						FA	CILITY II	VFOR	MATION			_	
NAME:	Albion	-Sherida	an Twp.	Landfil	l					PROJECT N	UMBER:	ALB03	9
ADDRESS:	29975	East E	rie Roa	d, Albior	n, Mich	igan 49	224			TELEPHONE: (517)629-5535			
CONTACT:	Leroy	Schmid	t										
<del></del>						MOI	VITORIN	G WE	LL DATA		. <del></del>	-	
COORDINAT	COORDINATES: N									N OF WELL:	Good		
000,121,11				_		-`` E					<u>Coop</u>		-
GROUND SURFACE ELEVATON:								CASING MA	ATERIAL/DIA	METER:	~	<del></del>	
TOTAL DEP	TH (FROM	GROUND	SURFACE)	:		J			TOP OF CA	ASING ELEV	ATION:	978.05	1
SCREENED	•		-			_			TOTAL DE	PTH (FROM TOP	of casing):		
SCREENED		•		•					SCREENE	D DEPTH (scr	REEN ONLY):		
<del></del>				_=		WE	ATHER	CONI	DITIONS		<del></del>		<u> </u>
WEATHER:				M. La	** ~ 6		AIIILIN	0011	WIND DIRE	ECTION:	SW 10-	15 m	10 ls
BAROMETR	IC PRES	SSURE		ove	30.0				TEMPERAT		42	13 (	
DANOMETR	-						45 A O U D	ED D					
					٠, ٢	IELD I			ARAMETER				
PERSONNE					-			110	Char		(rnou zoo):	20.	
MEASURED TOTAL DEPTH (FROM TOC): 39.41							STATIC WATER LEVEL (FROM TOC): 30.76  GROUNDWATER ELEVATION: 447.59						
VOLUME OF	VOLUME OF STATIC WATER: GROUNDWATER ELEVATION: 947.59												
							PURGI	NG D	ATA				
DATE OF PU			//	4/13			_						
PURGING M		mic	10001	5° #	2vrz		-		VOLUME PURGED: 1, 25 9 9//2 I				
PURGING R	ATE:	300	<u>mi /,</u>	min			_		VOLUME P	URGED:	1,25	991	luns
											205.041.011	ATIONIT	ADLE
	т.			PURG		T =	1				RGE CALCUL		
	Initial	1	2	3	4	5	6/Final		Well casing		Feet of Standing		Total Volume to
Time	1012		1024				1057		Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)
Water Level	+	30.43					30,43		1	0.041	Х	X 3	
pΗ	7.29	<del> </del>	<b>—</b>	6,14	_		6.14		2	0.163	X	X 3	
Temp.	1.7	11.5	11.6				11.6		4	0.653	X	X 3	
Spec. Cond.	344	327	392	394		<del> </del>	394		6	1.469	X	X 3	
Corr. Cond.	612	63	1	1.5		-	1						
Redox Pot.	42		65	68			68						
D.O.		0.08	0.04			-							
Turbidity	63	58	58	57	<u> </u>	<u> </u>	57						
				, ,			SAMPL	ING D					
DATE/TIME			11/	11/13		]0	23-			•	IG DEDICATED PUM		
SAMPLING I	METHO	D:	mich	שועקעי	er	Dump			STATIC W	ATER LEVEL	. (AFTER SAMPLING	): 	
		<del>-</del>					NC	TES					
											·		
EXPLOSIVE GAS R	EADING PRI	OR TO STA	TIC WATE	R LEVEL:		%CH4:	0			%LEL:	0		



MONITORING POINT:	MW5SB
DETECTION:	
ACCECCMENT:	

3401 Glendale Avenue, Suite 300 🖸 Toledo, Onio 43614					ASSESSMI	ENT:	
	FAC	CILITY INFO	RMATION		·————		
NAME: Albion-Sheridan Twp.		,		PROJECT N	UMBER:	ALB03	9
ADDRESS: 29975 East Erie Road	I, Albion, Michigan 49	224		TELEPHONE	<u>:</u>	(517)6	29-5535
CONTACT: Leroy Schmidt	······································						<del></del> ,
	MON	NITORING V	VELL DATA	<del></del>	<del></del>		·
COORDINATES: 5700	N N	iii Okiii V		N OF WELL:	Good		
5300			OONDITIO	NOI WILL.	0 0011	·	
GROUND SURFACE ELEVATON:			CASING M	ATERIAL/DIA	METER:	PVC 2	<del></del>
TOTAL DEPTH (FROM GROUND SURFACE):				ASING ELEVA		970.01	
SCREENED INTERVAL (INCLUDING SAN				PTH (FROM TOP			
SCREENED FORMATION:	Shallow Bedro	ock		D DEPTH (scr	•	894.51	'-899.51'
MEATHED: O		ATHER CO	WIND DIRE	ECTION:	1-4-1-	<u></u>	0
WEATHER: Ro. Ro. BAROMETRIC PRESSURE:	3005 13		TEMPERA		<u>www</u> 39	2-11	mp H
BAROWETRIC PRESSURE:					<u> </u>	_	
•	FIELD N		PARAMETER				
PERSONNEL PRESENT:			e chara		<del></del>		5.9
MEASURED TOTAL DEPTH (FROM TO	oc): <u>77.7</u>	4		ATER LEVEL	•	70.	
VOLUME OF STATIC WATER:			GROUNDV	VATER ELEV	ATION:	74	7.12
		PURGING	DATA	_			
DATE OF PURGING:	1/11/13	-					
PURGING METHOD: Pericks 11	c Pump	-	TIME OF P	URGING:	1340		
PURGING RATE: 300 m. m. VOLUME PURGED: 1,25 9911001							
,							
WELL VOLUMES	PURGED		VOL	UME TO PUR	RGE CALCUL	ATION 1	TABLE
Initial 1 2	3 4 5	6/Final	Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to
Time 1340 1349 1352		1355	Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)
Water Level ZO 35 20,85 20,35		5087	1	0.041	х	X 3	
	9.62	9.62	2	0.163	X	X 3	<u> </u>
	10,0	10.0	4	0,653	х	X 3	
Spec. Cond. 886 880 878	879	879	6	1.469	x	Х 3	
Corr. Cond.							
Redox Pot. +61 6 10	12	12					
D.O. 737 648 6.40		641					
Turbidity 14 4 4	4	4					
		SAMPLING	DATA				
DATE/TIME OF SAMPLING:///	1/13 135		SAMPLING	RATE (IFUSING	G DEDICATED PUMP	·):	
SAMPLING METHOD: Peris	Lettic Pune	-	STATIC W	ATER LEVEL	(AFTER SAMPLING)	):	
		NOTE	S				<del></del>
				%LEL:	0		



MONITORING POINT	MW5SG
DETECTION:	
ASSESSMENT:	<u>.                                    </u>

				<u> </u>						AGGEGGIVIE			
						FA	CILITY INF	ORMATION					
NAME:	E: Albion-Sheridan Twp. Landfill				PROJECT NUMBER: ALB039			9					
ADDRESS:	ESS: 29975 East Erie Road, Albion, Michigan 49224					TELEPHONE	<b>:</b> :	(517)62	29-5535				
CONTACT:	Leroy	Schmid	t										
						MON	NITORING	WELL DATA					
COORDINA	TES:		-			N			N OF WELL:	Good			
OCONDIII.	. 20.			_		E				0000			
GROUND S	URFACE	ELEVA	ATON:	<u> </u>				CASING MA	ATERIAL/DIA	METER:			
TOTAL DEP	TH (FROM	GROUND S	SURFACE)	:	<u> </u>		<del></del>	TOP OF CA	ASING ELEV	ATION:	970.69	<u> </u>	
SCREENED	•							TOTAL DE	PTH (FROM TOP	of casing):	-		
SCREENED		-						SCREENE	DEPTH (scr	REEN ONLY):	_		
					===	WF	ATHER CO	ONDITIONS					
WEATHER:			ρ	a in		***	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WIND DIRE	CTION:	ו שאען	0-15	molu	
BAROMETR	IC PRES	SURF		30.05	<del></del>			TEMPERA		40			
	- TALL					=					-		
	, perc				FI	ELD N		PARAMETER			•		
PERSONNE								<u>Cherch</u>		(5004.500);	<u> </u>		
MEASURED			•	oc):	3	30 .30	<u>~</u>		STATIC WATER LEVEL (FROM TOC): 20.67  GROUNDWATER ELEVATION: 950.62				
VOLUME OF	STATIC	WATE	±R:					GROUNDW	VATER ELEV	ATION.	/ 30		
		•		,			PURGING	S DATA					
DATE OF P				1//3			_			19 1			
PURGING M	IETHOD	S/27/4	25.5 K a	tric <u>cege</u>	Pro	<u>_</u>	<b>-</b>	TIME OF P		1314			
PURGING F	ATE:	300	m./2	<b>9</b> .			_	VOLUME P	URGED:	1,25 99	11001		
								· -		<del></del>			
	W	ELL VO	LUMES	PURG	ED		<del></del>	VOL		RGE CALCULA			
	Initial	1	2	3	4	5	6/Final	Well casing		Feet of Standing		Total Volume to	
Time			1326	•	<del> </del>		1329	Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)	
Water Level		500g		20.08	$\vdash$		20.08	1	0.041	X	X 3		
ρН		7.61	756	7.55			7.55	2	0.163	X	X 3	<b></b>	
Temp.	7.3	10,2	10.3	10.4	ļ <u>.</u>	<b></b>	10.4	44	0.653	X	X 3		
Spec. Cond.	1020	989	988	<del>ዓ</del> ४४	<b></b>	<del></del>	988	6	1.469	x	Х3	<u> </u>	
Corr. Cond.		<u> </u>			igsquare	<del></del>	<del>                                     </del>						
Redox Pot.	-35	-68	-65	-64	igsquare	<del></del>	-64						
D.O.	7.26	0	6	D	igsquare	<del></del>							
Turbidity	28	15	9	8	<u> </u>		8						
							SAMPLIN	G DATA					
DATE/TIME	OF SAM	PLING		11/12	,	13	29	SAMPLING	RATE (IF USIN	IG DEDICATED PUMP	):		
SAMPLING			Peru	telri	L PUV	~		STATIC W	ATER LEVEL	(AFTER SAMPLING)	:		
<del></del>						<del>-</del>	NOT	ES			<del></del>		
*							1101						
						W CHA:	()		%IFI:	0			



MONITORING POINT	MW6SB
DETECTION:	
ASSESSMENT:	

			ASSESSIVI	<u> </u>		
	FACILITY INFOR	RMATION				
NAME: Albion-Sheridan Twp.	Albion-Sheridan Twp. Landfill			ALB039		
ADDRESS: 29975 East Erie Road	DRESS: 29975 East Erie Road, Albion, Michigan 49224			(517)629-5535		
CONTACT: Leroy Schmidt						
	MONITORING WI	ELL DATA				
COORDINATES: 5250	N N	CONDITION OF WELL:	Lord			
4200	 E	CONDITION OF WELL.	<u> </u>			
GROUND SURFACE ELEVATON:		CASING MATERIAL/DIAI	METER	PVC 2"		
TOTAL DEPTH (FROM GROUND SURFACE):		TOP OF CASING ELEVA	· · · · · ·	969.74'		
SCREENED INTERVAL (INCLUDING SAN		TOTAL DEPTH (FROM TOP O		200.14		
SCREENED FORMATION:	Shallow Bedrock	SCREENED DEPTH (scre	•	894.77'-899.47'		
CONTENTED I CHARACTER.				004.11-000.41		
WEATHER 9	WEATHER CON					
WEATHER: KANA		WIND DIRECTION:	W 5-10.	mph		
BAROMETRIC PRESSURE:	30.04.5	TEMPERATURE (°F):	41			
	FIELD MEASURED P	ARAMETERS				
PERSONNEL PRESENT:	Mike	Cherchol				
MEASURED TOTAL DEPTH (FROM TO	oc): <u>77,53</u>	STATIC WATER LEVEL	(FROM TOC):	22.17		
VOLUME OF STATIC WATER:		GROUNDWATER ELEVA	TION:	947.57		
DATE OF PURGING: ////// PURGING METHOD: ()	PURGING D	TIME OF PURGING:	1223			
PURGING RATE: 300 mi/m	70	VOLUME PURGED:	1.25 90.	/w.,		
,						
WELL VOLUMES	PURGED	VOLUME TO PUR	GE CALCULA	ATION TABLE		
Initial 1 2	3 4 5 6/Final	Well casing Gallons Per Foot	Feet of Standing	3 Well Total Volume to		
	1238 1238	Diameter (in.) of Depth	Water	Volumes Purge (Gal.)		
Water Level 2236 2236 2236		<del></del>	Х	Х 3		
рн 8.06 7.58 7.54		<del></del>	х	X 3		
	85 85		Х	Х3		
Spec. Cond. 643 916 919	913 913	6 1.469	Χ	Х 3		
Corr. Cond.	3.2					
	-¥7 -Y5					
D.O. 10.43 0 0	0 0					
Turbidity 63 36	38 39					
	SAMPLING D	ATA				
DATE/TIME OF SAMPLING: ////	113 /238	SAMPLING RATE (IF USING	DEDICATED PUMP	: 4100 mi/mi		
SAMPLING METHOD:	clfic Pump	STATIC WATER LEVEL (				
	NOTES	·				
•	NOIES					
EXPLOSIVE GAS READING PRIOR TO STATIC WATER I	LEVEL: %CH4:	%LEL;	0			



MONITORING POINT	: <u>MW7SB</u>
DETECTION:	
ASSESSMENT:	

	ASSESSMENT:					
FACILITY INFO	DRMATION					
NAME: Albion-Sheridan Twp. Landfill	PROJECT NUMBER: ALB039					
ADDRESS: 29975 East Erie Road, Albion, Michigan 49224	TELEPHONE: (517)629-5535					
CONTACT: Leroy Schmidt						
MONITORING V	WELL DATA					
COORDINATES:	CONDITION OF WELL: Gas A					
	OORDINGT OF WILL.					
GROUND SURFACE ELEVATON:	CASING MATERIAL/DIAMETER:					
TOTAL DEPTH (FROM GROUND SURFACE):	TOP OF CASING ELEVATION: 963.02'					
SCREENED INTERVAL (INCLUDING SAND PACK):	TOTAL DEPTH (FROM TOP OF CASING):					
SCREENED FORMATION:	SCREENED DEPTH (SCREEN ONLY):					
WEATHER CO	TABLE DIRECTION A L. A.					
WEATHER: OVERCEST	WIND DIRECTION: NO 0.5 MPH					
BAROMETRIC PRESSURE: 36. 식식;	TEMPERATURE (°F): 21					
FIELD MEASURED						
	herehul					
MEASURED TOTAL DEPTH (FROM TOC): 63.28	STATIC WATER LEVEL (FROM TOC):					
VOLUME OF STATIC WATER:	GROUNDWATER ELEVATION: 947-63					
PURGING	DATA					
DATE OF PURGING: ////2//3						
PURGING METHOD: Peristelle from	TIME OF PURGING: (2704)					
PURGING RATE: هند المراد المنظقة	VOLUME PURGED: ロスタング					
1:75						
WELL VOLUMES PURGED	VOLUME TO PURGE CALCULATION TABLE					
	<del></del>					
Initial 1 2 3 4 5 6/Final	Well casing Gallons Per Foot Feet of Standing 3 Well Total Volume to					
Time 2704 07/3 3/2 07/4 07/5	<del></del>					
Time 3704 5713 374 0714 0714 0714 Water Level 25.4015 40 1540 1540 1540 1540	Well casing Gallons Per Foot Feet of Standing 3 Well Total Volume to Diameter (in.) of Depth Water Volumes Purge (Gal.)  1 0.041 X X 3					
Time 1704 0713 32 0714 0715  Water Level 1540 1540 1540 1540  pH 836 736 736 737 73	Well casing Gallons Per Foot Feet of Standing 3 Well Total Volume to Diameter (in.) of Depth Water Volumes Purge (Gal.)					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3					
Time 1704 0713 32 0714 0715  Water Level 1540 1540 1540 1540  pH 836 736 736 737 73	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Volumes         3 Well Volume to Volumes         Total Volume to Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3					
Time 3704 6713 374 6714 6715 Water Level 25.40/5 40 15.40/5 40 15.40/5 40 15.4	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3           6         1.469         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3           6         1.469         X         X 3					
Time	Well casing Diameter (in.)         Gallons Per Foot of Depth         Feet of Standing Water         3 Well Volumes Volumes Purge (Gal.)           1         0.041         X         X 3           2         0.163         X         X 3           4         0.653         X         X 3           6         1.469         X         X 3					
Time	Well casing   Gallons Per Foot   Feet of Standing   3 Well   Total Volume to   Diameter (in.)   of Depth   Water   Volumes   Purge (Gal.)     1   0.041   X   X 3					
Time	Well casing   Gallons Per Foot   Feet of Standing   3 Well   Total Volume to   Diameter (in.)   of Depth   Water   Volumes   Purge (Gal.)     1   0.041   X   X 3					
Time	Well casing   Gallons Per Foot   Feet of Standing   3 Well   Total Volume to   Diameter (in.)   of Depth   Water   Volumes   Purge (Gal.)     1   0.041   X   X 3					
Time	Well casing   Gallons Per Foot   Feet of Standing   3 Well   Total Volume to   Diameter (in.)   of Depth   Water   Volumes   Purge (Gal.)     1   0.041   X   X 3					



MONITORING POINT:	MW7SG
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue, Suite 300 □ Toledo, Ohio 43614				ASSESSM	ENT:		
FACILITY INFORMATION							
NAME: Albion-Sheridan Twp. Landfill  ADDRESS: 29975 East Erie Road, Albion, Michiga  CONTACT: Leroy Schmidt	ın 49224		PROJECT N TELEPHONI		ALB03 (517)6	9 29-5535	
	MONITORING V	VELL DATA					
COORDINATES:		CONDITIO	N OF WELL:	Good			
E							
GROUND SURFACE ELEVATON:		CASING M	ATERIAL/DIA	METER:			
TOTAL DEPTH (FROM GROUND SURFACE):		TOP OF C	ASING ELEV	ATION:	963.90		
SCREENED INTERVAL (INCLUDING SAND PACK):			PTH (FROM TOP	,			
SCREENED FORMATION:		SCREENE	D DEPTH (scr	REEN ONLY):			
	WEATHER CO	NDITIONS					
WEATHER: OUCCEST		WIND DIRE	ECTION:	NW 0-	5 mp	1.1	
BAROMETRIC PRESSURE: 30.51	<u></u>	TEMPERA	TURE (°F):	22			
FIEL	D MEASURED	PARAMETER	S	· · ·			
PERSONNEL PRESENT:		re chere	·hul				
MEASURED TOTAL DEPTH (FROM TOC): 23	<u> </u>	STATIC W	ATER LEVEL	(FROM TOC):	15.	23	
VOLUME OF STATIC WATER:		GROUNDW	ATER ELEV	ATION:	948	3.17	
PURGING METHOD: Person Purging Rate: Yes my from,  WELL VOLUMES PURGED	PURGING	TIME OF P	URGED:	<u> こ                                   </u>		ABLE	
Initial 1 2 3 4	5 6/Final	Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to	
Time 6)41 6)50 6)73 5756	<i>्राडा</i>	Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)	
Water Level 15.77 15.77 15.77 15.77	15.37	1	0.041	X	X 3		
pH (79 636 637 637) Temp. 7.11 9.4 9.3 9.3	637	2	0.163	X	X 3		
	is8	4	0.653	X	X 3		
Spec. Cond. 617 661 653 653  Corr. Cond.	<b>63</b> 6	6	1.469	х	Х 3		
Redox Pot3 -43 -46 -50	:50						
D.O. 2.11 0 0 0	10						
Turbidity 72 9 7 3	13						
	SAMPLING	DATA	<del></del>	<del></del>			
DATE/TIME OF SAMPLING: //////3	3756		RATE (IE LISIN	G DEDICATED PUMP	١.	ZIWMI/M	
SAMPLING METHOD: Periodition Pro			•	(AFTER SAMPLING)	•		
T. C. sur. Tric.		<del></del>			·		
	NOTES	•					
	<u> </u>						
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CF	14: 0		%LEL:	Ó		<del></del>	



MONITORING POINT:	MW8SB
DETECTION:	
ASSESSMENT:	

		ASSESSMENT:						
FACI	LITY INFORMATION							
NAME: Albion-Sheridan Twp. Landfill	PROJECT NU	MBER: ALB039						
ADDRESS: 29975 East Erie Road, Albion, Michigan 492	24 TELEPHONE:	(517)629-5535						
CONTACT: Leroy Schmidt	<del></del>							
MONITORING WELL DATA								
COORDINATES: 5650 N	CONDITION OF WELL:	Soud						
3750 E								
GROUND SURFACE ELEVATON: -	CASING MATERIAL/DIAN	METER: PVC 2"						
TOTAL DEPTH (FROM GROUND SURFACE):	TOP OF CASING ELEVAT	TION: 981.88'						
SCREENED INTERVAL (INCLUDING SAND PACK):	TOTAL DEPTH (FROM TOP OF	F CASING):						
SCREENED FORMATION: Shallow Bedroo	k SCREENED DEPTH (screen	EN ONLY): 909.83'-914.83'						
	THER CONDITIONS							
WEATHER: CHECKET / RAIS		WSW 5-10 mp 10						
BAROMETRIC PRESSURE: 30.06m		42						
	ASURED PARAMETERS							
	ke Cherchul							
MEASURED TOTAL DEPTH (FROM TOC): 75 30	STATIC WATER LEVEL (F	FROM TOC): 34.21						
VOLUME OF STATIC WATER:	GROUNDWATER ELEVA							
DATE OF PURGING: //////3	PURGING DATA							
PURGING METHOD: In Iconorca Pono	TIME OF PURGING:	i / /·2						
		1//3						
PURGING RATE: 400 mifmi VOLUME PURGED: 1.50 egg//ou								
WELL VOLUMES PURGED	VOLUME TO PURG	SE CALCULATION TABLE						
	/Final Well casing Gallons Per Foot I							
	Diameter (in.) of Depth	Water Volumes Purge (Gal.)						
	1 0.041							
	2 0.163	<del></del>						
	4 0.653 X	( X3						
	6 1.469	( ХЗ						
Corr. Cond.								
Redox Pot. 45 73 76 80	עז							
D.O. 4.0 0 0 0	0							
Turbidity 12 24 24 24 27 2	4	1						
S.	AMPLING DATA							
	SAMPLING RATE (IF USING I	DEDICATED PUMP):						
SAMPLING METHOD: MILLEDING POR	STATIC WATER LEVEL (A	<u> </u>						
	NOTES							
	110110							
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CH4:	🖒 %LEL:	0						



MONITORING POINT:	MW9DB
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue, Suite 300 □ Toledo, Ohio 43814							<del></del>	
,		ASSESSMENT:						
	F	RMATION						
NAME: Albion-Sheridan Twp.	Landfill	PROJECT NUMBER: ALB039				9		
ADDRESS: 29975 East Erie Road	l, Albion, Michigan		TELEPHONE	:	(517)6	29-5535		
CONTACT: Leroy Schmidt								
	Mo	ONITORING W	ELL DATA				<del></del>	
COORDINATES: ~	N		CONDITIO	N OF WELL:	Gest			
<del></del>	E							
GROUND SURFACE ELEVATON:			CASING M	ATERIAL/DIA	METER:	-		
TOTAL DEPTH (FROM GROUND SURFACE):			TOP OF C	ASING ELEVA	TION:			
SCREENED INTERVAL (INCLUDING SAN	ID PACK):		TOTAL DE	PTH (FROM TOP O	OF CASING):			
SCREENED FORMATION:			SCREENE	D DEPTH (scr	EEN ONLY):			
	V	VEATHER CON	IDITIONS	·····				
WEATHER:			WIND DIR	ECTION:	N 10-1	5 ma	loj	
BAROMETRIC PRESSURE:	30.54.5	<del></del>	TEMPERA	_	28	_ · · ·		
		MEASURED I	DARAMETER				<u> </u>	
PERSONNEL PRESENT:	FILLD		Chere	- g				
MEASURED TOTAL DEPTH (FROM TO	oc): <u>72</u>				(FROM TOC):	52	-3	
VOLUME OF STATIC WATER:	······································		STATIC WATER LEVEL (FROM TOC): 5.3 3  GROUNDWATER ELEVATION:					
3232 3. 3.7773 1771211		PURGING I						
DATE OF BURCING:	. 1	PURGING I	JATA					
DATE OF PURGING: /// PURGING METHOD: Parate /r	12/13	_	TIME OF P	I IDGING:	10.11			
PURGING RATE: 4/00 mg/m	· Mary	<del>_</del>	VOLUME F	DIRCED:	1011 1.50 cn	4.1		
PURGING RATE: 4/00 mg/m			VOLOIVIL I	ONOLD.	1.30 57	1/2)		
WELL VOLUMES	PURGED		VOL	UME TO PUR	GE CALCULA	ATION T	ABLE	
Initial 1 2	3 4 5	6/Final	Well casing		Feet of Standing		Total Volume to	
	1026	1-26	Diameter (in.)	of Depth	Water	Volumes	l .	
Water Level 5.53 5.53 5.53		57.57	1		х	Х3		
	7.32	732	2		X	Х 3		
	93	9.3	4	0.653	X	Х 3		
Spec. Cond. 619 639 639		639	6	1.469	X	Х3		
Corr. Cond.							······································	
Redox Pot29 -50 -50	- 51	37						
D.O. 6.20 0 0	<u> </u>	0						
	10	ÍO						
		SAMPLING	DATA			= = =	· · · · · · · · · · · · · · · · · · ·	
DATE/TIME OF SAMPLING:	1/12/13 14	24		RATE (IF USING	DEDICATED PUMP	):	No-milmi	
SAMPLING METHOD:	halter rum	0		ATER LEVEL				
		NOTES	<del>::</del>	<u> </u>	·			
		NOTES	•					
		<del> </del>	<del></del>	·			<del></del>	
EXPLOSIVE GAS READING PRIOR TO STATIC WATER	LEVEL; %CH4:	0		%LEL:	0			
EVEROUSE AND MENDING LAUGH IN STATIC MATER.	LLVEL: 76CH4:	~	_	N-E-	6'			



MONITORING POINT:	MW9SB
DETECTION:	
ASSESSMENT:	

					<u>  </u>							ASSESSM	ENT:		
							FA	CILITY	INFOR	MATION					
NAM	NAME: Albion-Sheridan Twp. Landfill										PROJECT NUMBER: ALB039				
ADDI	RESS:	29975	East E	rie Road, Albion, Michigan 49224						TELEPHONE: (517)			(517)6	29-5535	
CON	TACT:	Leroy	Schmid	dt					-						
						-	МО	NITORII	NG WE	LL DATA					
coo	RDINAT	ES:	5250	)			N				N OF WELL:	Coal			
			3750			-	 E					000-1			
GRO	UND SU	IRFACE	ELEV	ATON:			. –			CASING M	IATERIAL/DIA	METER:	PVC 2	н	
TOTA	AL DEPT	H (FROM	GROUND	SURFACE)	:		-		•		ASING ELEVA		959.99		
	EENED I			•		:			•		PTH (FROM TOP		~	, <u>.</u>	
	EENED I		-		•	Shallov	v Bedi	ock	-		D DEPTH (scr	•	900.06	5'-905.06'	
				_	<del></del> .		W	ATHER	CONI	DITIONS	<del></del> -	<del></del>			
WEA.	THER:			1) 1	115		AAI	-AIIIEN	COM	WIND DIRI	ECTION:	1 . 5- 1			
	OMETRI	C PRES	SSLIRE				<u> </u>		•		TURE (°F):	42	11 dw		
- DAITO		OTIL		<u> </u>		0.051	_					72			
DEDA		5556				F				ARAMETER					
	SONNEL			<del></del>				MIKE	<u>. u</u>	nerchol			4.00		
	SURED .			•	oc):		62,5	<u> </u>			ATER LEVEL	•	12.		
VOLU	JME OF	STATE	J WATI	ER:						GROUNDV	VATER ELEV	ATION:	94	7.51	
								PURG	ING DA	ATA					
	OF PU	PCINC		3,1											
				_///	1//3			_							
PURG	SING ME	THOD	Pers		1/13 Mm	ρ		<b>-</b>		TIME OF P	URGING:	1145			
PURG		THOD			1/13 . ~~ 1:3	Δ		- - -		TIME OF P	PURGING: PURGED:	1145 1.50 gell	low		
PURG	SING ME	ETHOD ATE:	1253 100	<u>m, fo</u>	1.iz			- - -			PURGING: PURGED:	1145 1.50 gel	10~		
PURG	SING ME	ETHOD ATE:	1253 100		1.iz			- - -		VOLUME F	URGING: PURGED: UME TO PUR			[ABLE	
PURG	SING ME	THOD TE: Wi	1 1 1	LUMES 2	PURG	SED 4	5	6/Final		VOLUME F	UME TO PUR		ATION	TABLE Total Volume to	
PURO PURO Time	GING ME	THOD TE: Willian	Pers 100 1 1159	LUMES 2	PURG 3	ED 4	5	6/Final /2v3		VOLUME F	UME TO PUR	GE CALCULA	ATION	Total Volume to	
PURG	GING ME	WI Initial	Pers Yw 1 1 1159 1255	LUMES 2 1157 1255	PURG 3 1220 1255	ED 4 1203	5	1243 1258		VOLUME F	UME TO PUR Gallons Per Foot of Depth 0.041	GE CALCULA Feet of Standing Water	ATION 7	Total Volume to	
PURO PURO Time	GING ME	THOD TE: Wi Initial 1145 12.53	Pers 700 1 1159 1255 76)	LUMES 2 1153 1255 7.50	PURC 3 1200 1255 7.48	6ED 4 1203 1205 7.45	5	12:13 12:58 7:45		VOLUME F  VOL  Well casing  Diameter (in.)	UME TO PUR Gallons Per Foot of Depth 0.041	GE CALCULA Feet of Standing Water	3 Well Volumes	Total Volume to	
PURG PURG Time	GING MEGING RA	Winitial 1195 12.55 9 48	Pers 100 1 1159 1255 76)	LUMES 2 1157 1255 7-50 9-4	PURG 3 12 20 12 55 7 - 48 7 - 5	6ED 4 1203 1205 7.95 9.5	5	1243 1258 745 9.5		VOLUME F  VOL  Well casing  Diameter (in.)	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes	Total Volume to	
PURO PURO Time Water	GING MEGING RA	Winitial 1195 12.55 9 48	Pers 700 1 1159 1255 76)	LUMES 2 1153 1255 7.50	PURG 3 12 20 12 55 7 - 48 7 - 5	6ED 4 1203 1205 7.45	5	12:13 12:58 7:45		VOLUME F  VOL  Well casing  Diameter (in.)  1	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCULA Feet of Standing Water X	3 Well Volumes X 3	Total Volume to	
PURO PURO Time Water pH Temp.	GING MEGING RA	Initial JUSS 948 8.9	Pers 700 1 1159 [255] 767 7.3	LUMES  2  1157  1257  1257  1257  1257  1257  1257	PURG 3 12 w 12 55 7.48 7 5 930	6ED 4 1203 125 7.95 9.5 929	5	1243 1258 745 9.5 929		VOLUME F  VOL  Well casing Diameter (in.)  1  2  4	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes X 3 X 3	Total Volume to	
PURO PURO Time Water pH Temp. Spec. (	EING ME EING RA Level Cond. Cond. Pot.	THOD TE: Winitial 1145 12.55 8.48 8.43 500	Pers 7w 1 1159 1255 7-6) 2.3 934	LUMES 2 1157 1255 7-50 9-4 933	PURG 3 12 w 12 ss 7.48 7 s 930	6ED 4 1203 1207 7:90 9.5 929	5	1245 1257 745 9.5 929 -99		VOLUME F  VOL  Well casing Diameter (in.)  1  2  4	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. 0	EING ME EING RA Level Cond. Cond. Pot.	THOD TE: Winitial 1145 12.55 8.9 8.9 500	Pers 700 1 1159 1255 7-6) 7.3 934	LUMES 2 1157 1255 7-50 9-4 933 -87 0	PURG 3 12 \( \times \) 12.55 7.48 7.5 930	6ED 4 1203 125 7.95 9.5 929	5	1245 1257 745 9.5 929 -99		VOLUME F  VOL  Well casing Diameter (in.)  1  2  4	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. C Corr. C Redox	EING ME GING RA Level Cond. Cond.	THOD TE: Winitial 1145 12.55 8.48 8.43 500	Pers 7w 1 1159 1255 7-6) 2.3 934	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 w 12 ss 7.48 7 s 930	6ED 4 1203 1207 7:90 9.5 929	5	1245 1257 745 9.5 929 -99		VOLUME F  VOL  Well casing Diameter (in.)  1  2  4	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. ( Corr. C Redox D.O.	EING ME GING RA Level Cond. Cond.	THOD TE: Winitial 1145 12.55 8.9 8.9 500	Pers 700 1 1159 1255 7-6) 7.3 934	LUMES 2 1157 1255 7-50 9-4 933 -87 0	PURG 3 12 \( \times \) 12.55 7.48 7.5 930	1203 1205 1205 7.55 9.5 927 -Yi		1245 1257 745 9.5 929 -99	ING D	VOLUME F  VOL  Well casing Diameter (in.)  1  2  4  6	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	GE CALCUL/ Feet of Standing Water X X	3 Well Volumes X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. 0 Corr. C Redox D.O. Turbidii	EING ME GING RA Level Cond. Cond.	THOD (TE:   Initial   1145   12.55   8.9   500   9.89   11	Pers Jw , 1 1 1159 [2.55 7-6] 7.3 934 -95 0	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 \( \times \) 12.55 7.48 7.5 930	1203 1205 1205 7.55 9.5 927 -Yi		123 1257 745 9.5 929 -99 0		VOLUME F  VOL Well casing Diameter (in.) 1 2 4 6	UME TO PUR Gallons Per Foot of Depth 0.041 0.163 0.653	Feet of Standing Water X X X	3 Well Volumes X 3 X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. C Corr. C Redox D.O. Turbidii	Level Cond. cond. Pot.	ITHOD TE: Winitial 1195 12.55 8 48 8 9 7 9 89	Pers 700 1 1159 1255 7-6) 7.3 034 -95 0	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 \( \times \) 12.55 7.48 7.5 930	1203 1205 1205 7.55 9.5 927 -Yi		123 1257 745 9.5 929 -99 0		VOLUME F  VOL Well casing Diameter (in.) 1 2 4 6	Gallons Per Foot of Depth 0.041 0.163 0.653 1.469	Feet of Standing Water X X X X X	ATION 7 3 Well Volumes X 3 X 3 X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. C Corr. C Redox D.O. Turbidii	Level Cond. Cond. Pot.	ITHOD TE: Winitial 1195 12.55 8 48 8 9 7 9 89	Pers 700 1 1159 1255 7-6) 7-3 934 -95 0	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 \( \tilde{\text{12}} \) 12.55 7.55 930	1203 1205 1205 7.55 9.5 927 -Yi		123 1257 745 9.5 929 -99 0 21 SAMPL		VOLUME F  VOL Well casing Diameter (in.) 1 2 4 6	Gallons Per Foot of Depth 0.041 0.163 0.653 1.469	Feet of Standing Water X X X X X	ATION 7 3 Well Volumes X 3 X 3 X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. C Corr. C Redox D.O. Turbidii	Level Cond. Cond. Pot.	ITHOD TE: Winitial 1195 12.55 8 48 8 9 7 9 89	Pers 700 1 1159 1255 7-6) 7-3 934 -95 0	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 \( \tilde{\text{12}} \) 12.55 7.55 930	1203 1205 1205 7.55 9.5 927 -Yi		123 1257 745 9.5 929 -99 0 21 SAMPL		VOLUME F  VOL Well casing Diameter (in.) 1 2 4 6	Gallons Per Foot of Depth 0.041 0.163 0.653 1.469	Feet of Standing Water X X X X X	ATION 7 3 Well Volumes X 3 X 3 X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. C Corr. C Redox D.O. Turbidii	Level Cond. Cond. Pot.	ITHOD TE: Winitial 1195 12.55 8 48 8 9 7 9 89	Pers 700 1 1159 1255 7-6) 7-3 934 -95 0	157 1255 1255 1255 1255 1255 1255 1255 1	PURG 3 12 \( \tilde{\text{12}} \) 12.55 7.55 930	1203 1205 1205 7:45 9:5 9:27 -Yi 0		123 1257 745 9.5 929 -99 0 21 SAMPL		VOLUME F  VOL Well casing Diameter (in.) 1 2 4 6	Gallons Per Foot of Depth 0.041 0.163 0.653 1.469	Feet of Standing Water X X X X X	ATION 7 3 Well Volumes X 3 X 3 X 3 X 3	Total Volume to	
Time Water pH Temp. Spec. ( Corr. C Redox D.O. Turbidii	Level Cond. Cond. Pot.	Initial IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Pers 700  1 1154 5255 7-6) 7.3 034 -95 0 12 PLING:	1157 1255 7.50 9.4 9.33 23	PURG 3 12 22 12 55 7 7 7 930 22 //3	1203 1207 7.95 9.5 929 -¥1 0		123 1257 745 9.5 929 -99 0 21 SAMPL	OTES	VOLUME F  VOL Well casing Diameter (in.)  1 2 4 6	Gallons Per Foot of Depth 0.041 0.163 0.653 1.469	Feet of Standing Water X X X X X	ATION 7 3 Well Volumes X 3 X 3 X 3 X 3	Total Volume to	



MONITORING POINT:	MW10SG
DETECTION:	
ASSESSMENT:	

		ASSESSI	MENT:				
	FACILITY INFO	DRMATION					
NAME: <u>Albion-Sheridan</u> 7	Twp. Landfill	PROJECT NUMBER: ALB039					
ADDRESS: 29975 East Erie I	Road, Albion, Michigan 49224	TELEPHONE: (517)629-5535					
CONTACT: Leroy Schmidt							
	MONITORING V	VELL DATA					
COORDINATES:	N N	CONDITION OF WELL: _6'סטל					
		BONDITION OF WELL. BODG					
GROUND SURFACE ELEVATO	<del></del> _	CASING MATERIAL/DIAMETER:	<del></del>				
TOTAL DEPTH (FROM GROUND SURF		TOP OF CASING ELEVATION:	950.03'				
SCREENED INTERVAL (INCLUDIN	, ————————————————————————————————————	TOTAL DEPTH (FROM TOP OF CASING):	-				
SCREENED FORMATION:		SCREENED DEPTH (SCREEN ONLY):					
		<del> </del>					
MEATHED.	WEATHER CO		<b>_</b>				
WEATHER:	Rain	WIND DIRECTION: WWW	5-10 mpH				
BAROMETRIC PRESSURE:	30.0415	TEMPERATURE (°F): 4/					
	FIELD MEASURED	PARAMETERS	<u></u>				
PERSONNEL PRESENT:	mk	¿ cherchol	· · · · · · · · · · · · · · · · · · ·				
MEASURED TOTAL DEPTH (FR	ROM тос): 7. 95	STATIC WATER LEVEL (FROM TOC):	<u> 3. 2<b>3</b> </u>				
VOLUME OF STATIC WATER:	<u> </u>	GROUNDWATER ELEVATION: 946.80					
	PURGING	DATA					
DATE OF PURGING:	1/11/13						
PURGING METHOD: Bsv	lec .	TIME OF PURGING:	is				
PURGING RATE: Varieb	12	VOLUME PURGED: 1. 75	Stlor (Dry )				
			<del>//// (2) / -</del>				
WELL VOLUM	MES PURGED	VOLUME TO PURGE CALCU	JLATION TABLE				
Initial 1	2 3 4 5 6/Final	Well casing Gallons Per Foot Feet of Standing	ng 3 Well Total Volume to				
Time		Diameter (in.) of Depth Water	Volumes Purge (Gal.)				
Water Level		1 0.041 X	хз				
pH 676 702 7	7.03 7.04 . 6.57	2 0.163 X 4.62	x3 223				
	2.0 119 (Dry) 9.5	4 0.653 X	х з				
Spec. Cond. 816 750 7	92 792 790	6 1.469 X	хз				
Corr. Cond.							
Redox Pot.							
D.O.							
Turbidity							
	SAMPLING	DATA					
DATE/TIME OF SAMPLING:	11/11/13 1253	SAMPLING RATE (IF USING DEDICATED PUN	(P) 216 All				
SAMPLING METHOD:	De les	STATIC WATER LEVEL (AFTER SAMPLIN	<del>- /</del>				
5. WHI EING WILLINGS.	pritt		~/·				
	NOTES	5					
<del></del>							
<del></del>							
EXPLOSIVE GAS READING PRIOR TO STATIC W	NATER LEVEL: %CH4:	%LEL:					



MONITORING POINT:	MW15SB
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue, Su							,								
3401 Glendale Avenue, Sulte 300 □ Toledo, Ohio 43614										ASSESSM	ENT:				
				MATION											
NAME:										PROJECT NUMBER: ALB039					
ADDRESS: 2	29975 East	Erie Roa	d, Albio	n, Mich	igan 4	9224		TELEPHONE: (517)629-553			29-5535				
CONTACT:	Leroy Schm	idt													
	MONITORING WELL DATA														
COORDINATE	S:	~				N OF WELL:	Cial								
					- <sup>N</sup> E			CONDING		<u> </u>					
GROUND SUR	FACE ELE	VATON:						CASING M	ATERIAL/DIA	AMETER:	~				
TOTAL DEPTH			):						ASING ELEV		954.35	<del></del>			
SCREENED IN					_				PTH (FROM TOP		_	<del></del>			
SCREENED FO	•		,						D DEPTH (sc	•					
					\A/I	EATHER	CONI		<u></u>	<u> </u>					
WEATHER:	نو	Teer	•		AAI	EATHER	COM	WIND DIRE	ECTION:	Alalı	0-5-	m.1.			
BAROMETRIC				%,53				TEMPERA		25 25	<del></del>	<u> </u>			
DARONE INO	- NEGOOK							<del>.</del>							
				F	IELD I			ARAMETER	7						
PERSONNEL F					<u> </u>		ربر	Cherl			7 7				
MEASURED TO		•	roc):		<u>31.5°</u>	<del>/</del>			ATER LEVEL		7.2				
VOLUME OF S	TATIC WA	ΓER:				<u> </u>		GROUNDWATER ELEVATION: <u>547.68</u>							
			, ,			PURGI	NG D	ATA							
DATE OF PUR PURGING MET	GING:	<u> </u>	12/1	<u>₹</u>		_				<b>A</b>					
PURGING MET	HOD: <u>Per</u>	whilt.	c P	<u> </u>		_		TIME OF P	URGING:	0849					
PURGING RAT	E: <u>4</u> 60	12/ m	j	•		_		VOLUME PURGED: /・50 きっパッ							
	WELL V	$\overline{}$	T	ED				VOLUME TO PURGE CALCULATION TABLE							
<del></del>	Initial 1	2	3	4	5	6/Final		Well casing		t Feet of Standing		Total Volume to			
	×19 085			ļ		0704		Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)			
	28, 36			<u> </u>		220		1	0.041	Х	X 3				
	47 743				<b> </b>	7.39		2.	0.163	X	X 3				
	) ] 7.2		74	<u> </u>		7.4		4	0.653	X	X 3				
	144 BZE	)   <u> </u> 229	821	-		21		6	1.469	x	X 3				
Corr. Cond.	3 -47	a C.C.	-99			-95						,			
·		<del>'                                    </del>			<b></b> -	0									
<del></del>	1640	0	0			19									
Turbidity /	16 21	20	1.4	<u> </u>	<u> </u>					<del> </del>					
		. 1	. ·	_		SAMPLI	NG D								
DATE/TIME OF					09	01				IG DEDICATED PUMP		Klus mis min			
SAMPLING ME	THOD:	721	telf	L P.	m			STATIC WA	ATER LEVEL	(AFTER SAMPLING)	: 	. قبي 			
						NO	TES								
				<u> </u>											
EXPLOSIVE GAS READ!	NG PRIOR TO ST	ATIC WATE	R LEVEL:		%CH4:	Ð			%LEL:	U					



MONITORING POINT:	MW16DB
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue, Suite 300 □ Toledo, Ohio 43614	1		,, o.,,,		BETEGING	• • • • • • • • • • • • • • • • • • • •	<del></del> .						
					ASSESSMI	ENT:							
FACILITY INFORMATION  NAME: Albion-Sheridan Twp. Landfill PROJECT NUMBER: ALB039													
NAME: Albion-Sheridan Twp.	Landfill			PROJECT NUMBER: ALB039									
ADDRESS: 29975 East Erie Road	d, Albion, Michigan	49224		TELEPHONE	:	(517)62	29-5535						
CONTACT: Leroy Schmidt													
MONITORING WELL DATA													
COORDINATES:	N	CONDITIO	N OF WELL:	Circ									
	E				,								
GROUND SURFACE ELEVATON:			CASING M	ATERIAL/DIA	METER:	_							
TOTAL DEPTH (FROM GROUND SURFACE):			TOP OF C	ASING ELEVA	TION:	952.06							
SCREENED INTERVAL (INCLUDING SAM	ND PACK):	<del></del>	TOTAL DE	PTH (FROM TOP O	of casing):								
SCREENED FORMATION:		_	SCREENE	D DEPTH (scri	EEN ONLY):								
WEATHER CONDITIONS													
WEATHER:			WIND DIRE	ECTION:	N 0-5	mpH							
BAROMETRIC PRESSURE:	30.541		TEMPERA		28								
	FIELD	MEASURE	PARAMETER	S									
PERSONNEL PRESENT:		MIKE CI	,				·						
MEASURED TOTAL DEPTH (FROM TO		.59		ATER LEVEL	(гком тос):	4.3	35						
VOLUME OF STATIC WATER:		<del></del>	GROUNDV	GROUNDWATER ELEVATION: 947.71									
		PURGING	DATA										
DATE OF PURGING: ////z	./13												
DATE OF PURGING: ////z PURGING METHOD: ディーティー	Pump		TIME OF P	URGING:	0740								
PURGING RATE: 400 ALLAN			VOLUME P	URGED:	1.50 9011	tor							
			•	•									
WELL VOLUMES	PURGED		VOI	LUME TO PUF	RGE CALCUL	ATION T	TABLE						
Initial 1 2	3 4 5	6/Final	Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to						
Time 2740 0749 0752		2753	Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)						
Water Level 7.63 8.63 8.63		867	1	0.041	Х	X 3							
		741	2	0.163	х	Х 3							
	7.9	79	4		Х	Х 3							
	Liv	610	6	1.469	Χ	Х3							
Corr. Cond.		<del>   </del>											
Redox Pot. フィーフィーフと	-72	-32											
D.O. 734 D D	<i>t</i> <sup>2</sup>												
Turbidity 14 9	8												
	3	SAMPLING											
DATE/TIME OF SAMPLING: ///	413	0955		RATE (IF USING		2	Iw mi/min.						
SAMPLING METHOD: Period	teltic Piny	,	STATIC WA	ATER LEVEL (	AFTER SAMPLING)	: <u>.</u>	سند						
		NOTE	S										
				<u> </u>									
		•	<del></del>										
EXPLOSIVE GAS READING PRIOR TO STATIC WATER	LEVEL; %CH4	: <u>0</u>		%LEL:	0								



MONITORING POINT:	MW16SB
DETECTION:	
ASSESSMENT:	

											ASSESSM	ENT:	
					<del> =</del>	FA	CILITY	NFOF	RMATION	<del></del>	<del>''</del>	_	
NAME:	Albion	-Sheric	lan Twp	. Landfi	11			_		PROJECT N	UMBER:	ALB03	9
ADDRESS:	ADDRESS: 29975 East Erie Road, Albion, Michigan 49224								TELEPHONE	<b>:</b> :	(517)6	29-5535	
CONTACT:	CONTACT: Leroy Schmidt												
	MONITORING WELL DATA												
COORDINAT	ſES:		_				CONDITIO	N OF WELL:	Gart				
			_			E							
GROUND SU	JRFACE	ELEV	ATON:			•			CASING N	IATERIAL/DIA	METER:	_	
TOTAL DEP	TH (from	A GROUND	SURFACE)	):				='	TOP OF C	ASING ELEVA	ATION:	952.07	'
SCREENED	INTER\	/AL (INC	LUDING SA	ND PACK):			_		TOTAL DE	PTH (FROM TOP	OF CASING):		
SCREENED	FORMA	ATION:							SCREENE	D DEPTH (scr	REEN ONLY):		
		-				WE	ATHER	CON	DITIONS				
WEATHER:		Clea	<i>y y</i> .						WIND DIR	ECTION:	N 5-10	moly	
BAROMETR	IC PRES	SSURE	:		30,54	1.5			TEMPERA	TURE (°F):	27		
		_			F	IELD N	/IEASUF	RED P	ARAMETER	lS			
PERSONNE	L PRES	ENT:					. אין	IKL	Chero	Las			
MEASURED	TOTAL	DEPTH	from t	oc):	3	7,25	<u>,                                    </u>			ATER LEVEL	(FROM TOC):	4.	97
VOLUME OF	STATIO	C WAT	ER:		-				GROUNDV	VATER ELEV	ATION:	94	7.10
					-		PURG	NG D	ATA				
DATE OF PL	IRGING	:	111	12/12									
PURGING M	ETHOD	Per	11/2/	tic.	Pun	,	-		TIME OF P	URGING:	0917		
PURGING RA		400		ms			_		VOLUME F	PURGED:	1.50 9	«11v.s	
										_			
	<u>W</u> I	ELL VC	LUMES	PURG	ED				VO	LUME TO PU	RGE CALCUL	ATION	TABLE
	Initial	1	2	3	_ 4	5	6/Final		Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to
Time	0117		5,29				0932		Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)
Water Level	-	5.00	· · · · ·	5.60			رن،ی		1	0.041	х	Х3	
pН	764	733		7.33			2 33		2	0.163	X	ХЗ	
Temp.	79		1.4 -	3,3			83		4	0.653	Х	X 3	
Spec. Cond.	321	93L	630	929			32G		6	1.469	х	X 3	
Corr. Cond.	J==-	1.6	- <del></del>	3			1						
Redox Pot.	-51	- <u>LJ</u>	-7-1	-72		_	- 72						-
D.O.	607	14	S K	0			0						
Turbidity	53	17_	10	7		_	7			<u> </u>			
			,	1			SAMPL	ING D					. /
DATE/TIME (				12/13			<u> 932 </u>			RATE (IF USING			2140 mg/m.
SAMPLING N	TETHOL	): 	Per 1	relfi	i Ro	<del>}</del>			STATIC W	ATER LEVEL	(AFTER SAMPLING)	:	
							NO	TES					
<del></del>											- Jan		
			TIC WATER			%CH4:	0			%LEL:	$\sim$		



MONITORING POINT	MW17B
DETECTION:	
ASSESSMENT:	

3401 Glendale Avenue, Sulte 300 □ Toledo, Ohio 43814	ASSESSMENT:
FACILITY INF	ORMATION
NAME: Albion-Sheridan Twp. Landfill	PROJECT NUMBER: ALB039
ADDRESS: 29975 East Erie Road, Albion, Michigan 49224	TELEPHONE: (517) 629-5535
CONTACT: Leroy Schmidt	· · · · · · · · · · · · · · · · · · ·
MONITORING	WELL DATA
COORDINATES: ~ N	CONDITION OF WELL: 6001
E	
GROUND SURFACE ELEVATON:	CASING MATERIAL/DIAMETER:
TOTAL DEPTH (FROM GROUND SURFACE):	TOP OF CASING ELEVATION:
SCREENED INTERVAL (INCLUDING SAND PACK):	TOTAL DEPTH (FROM TOP OF CASING):
SCREENED FORMATION:	SCREENED DEPTH (SCREEN ONLY):
WEATHER CO	ONDITIONS
WEATHER: Clear	WIND DIRECTION: NNW O-5 mp 14
BAROMETRIC PRESSURE: 30.53.0	TEMPERATURE (°F): 24
FIELD MEASURED	PARAMETERS
	ike Cherchil
MEASURED TOTAL DEPTH (FROM TOC): 80.14	STATIC WATER LEVEL (FROM TOC): /3.01
VOLUME OF STATIC WATER:	GROUNDWATER ELEVATION:
PURGINO	G DATA
DATE OF PURGING: ///2/17	
PURGING METHOD: Person I tic Ring	TIME OF PURGING: 0376
PURGING RATE: 500 milmin	VOLUME PURGED: 200 1301/200
<del></del>	
WELL VOLUMES PURGED	VOLUME TO PURGE CALCULATION TABLE
Initial 1 2 3 4 5 6/Final	Well casing Gallons Per Foot Feet of Standing 3 Well Total Volume to
Time 0316 3325 0331 0831	Diameter (in.) of Depth Water Volumes Purge (Gal.)
Water Level 13 7 13 7 13 67 13 67 13 67	1 0.041 X X 3
pH 7 68 7/33 7.38 7.90 7.90	2 0.163 X X 3
Temp. 72 73 75 75 75	4 0.653 X X 3
Spec. Cond. 307 269 268 268	6 1.469 X X 3
Corr. Cond.  Redov Pot -102 -211 -720 -727 -221-	
MODERATOR SEC	
D.O. 3 9 5.25 5.27 5.18	
Turbidity 49 16 15 16 16	
SAMPLING	<i>,</i> 1
DATE/TIME OF SAMPLING: ///2/13 0331	SAMPLING RATE (IF USING DEDICATED PUMP):
SAMPLING METHOD: Perite Itic Pump	STATIC WATER LEVEL (AFTER SAMPLING):
NOTE	ES .
EXPLOSIVE GAS READING PRIOR TO STATIC WATER LEVEL: %CH4:	%LEL: <u>()</u>



MONITORING POINT:	RW04
DETECTION:	
ASSESSMENT:	

				ASSESS	MENT:
	·	FACILITY INF	ORMATION	<u>''</u>	<del></del>
NAME: Albion-Sheridan Twp.	Landfill		PRO	JECT NUMBER:	ALB039
ADDRESS: 29975 East Erie Road	d, Albion, Michigai	n 49224	TELE	PHONE:	(517) 629-5535
CONTACT: Leroy Schmidt					
		MONITORING	WELL DATA		<del></del>
COORDINATES: ~	 N		CONDITION OF	WELL: /ina/	
	 E		301,211,011,01	<u> </u>	
GROUND SURFACE ELEVATON:			CASING MATER	IAL/DIAMETER:	
TOTAL DEPTH (FROM GROUND SURFACE):			TOP OF CASING		
SCREENED INTERVAL (INCLUDING SAN	1D PACK): -		TOTAL DEPTH (	FROM TOP OF CASING):	
SCREENED FORMATION:	· — —		SCREENED DEF	TH (SCREEN ONLY):	<del></del>
		WEATHER CO	<del> </del>		
WEATHER: Clear			WIND DIRECTIO	אוע או	5-10 mp4
BAROMETRIC PRESSURE:	30,550		TEMPERATURE		- 10 17014
		D 845 4 5 1 5		· · /· <u>5 · · · · · · · · · · · · · · · · · ·</u>	
DEDCONNEL DESCRIT	FIEL		PARAMETERS	•	
PERSONNEL PRESENT:	<u>.</u>	19114	Cherchyl	15751 /	
MEASURED TOTAL DEPTH (FROM TO	oc):	<del></del>		LEVEL (FROM TOC):	
VOLUME OF STATIC WATER:			GROUNDWATER	RELEVATION:	
DATE OF PURGING:  PURGING METHOD:  PURGING RATE:  Van - lie	~113	PURGING	TIME OF PURGII		ر. <i>با</i>
WELL VOLUMES	PURGED		VOLUME 1	TO PURGE CALCU	LATION TABLE
Initial 1 2	3 4	5 6/Final	Well casing Gallons	Per Foot Feet of Standi	ng 3 Well Total Volume to
Time			Diameter (in.) of (	Depth Water	Volumes Purge (Gal.)
Water Level			1 0.	041 X	X 3
pH 675		6.55	2 0.	163 X	X 3
Temp. 12 3		12.3	4 0.	653 X	Х3
Spec. Cond. 932		835	6 1.	469 X	X 3
Corr. Cond.		<del></del>			
Redox Pot.		-3(			
D.O. VECC		9.62			
Turbidity 3		3			
	,	SAMPLING	DATA		
DATE/TIME OF SAMPLING: ////12	<u> 13</u>	POUC		(IF USING DEDICATED PU	
SAMPLING METHOD: Fc, Ly	cer	<del></del>	STATIC WATER	LEVEL (AFTER SAMPLIN	ıg):
		NOTE	S	<del>7.</del>	
EXPLOSIVE GAS READING PRIOR TO STATIC WATER	LEVEL: %CH	4:	%LEL:		



MONITORING POINT:	RW06
DETECTION:	
ASSESSMENT:	

											ASSESSME	NT:		
-							FA	CILITY INI	FORMATION					
	NAME:	Albion-Sheridan Twp. Landfill				PROJECT NUMBER: ALB039		9						
						n, Michi	gan 49	9224	•	TELEPHONE		(517) 6	29-5535	.
		Leroy S									•			
	-						MO	NITORING	WELL DATA					
	COORDINATE	=S·					N			OF WELL:	Soul			
	COORDINATE	_0.					E		CONDITION		JULIUM.			•
	GROUND SUI	REACE	FI FVA	TON.			_		CASING MA	TERIAL/DIA	METER:			•
	TOTAL DEPT				:					SING ELEVA				•
	SCREENED II	•								PTH (FROM TOP C				•
	SCREENED F									DEPTH (scre				-
_:-		2. 311/ (					187	EATUED O	CONDITIONS	<del></del>				_
	WEATHER.	•		,	: lear	_	VVE	EAINERU	פאטודוטאט. WIND DIRE	CTION	NW 5-10	120 - 12		
	WEATHER:		CLIDE:			30155	<u> </u>		TEMPERAT		30 30	1-1011		-
	BAROMETRIC	2 PKES	SUKE:					<del></del> -			<u> </u>			
						F	ELD !	MEASURE	D PARAMETERS	5				
	PERSONNEL								07.70.00	TED   E1 (E1				-
	MEASURED 1			•	oc):		<u> </u>			TER LEVEL	•			-
	VOLUME OF	STATIC	WATE	R:					GROUNDW	ATER ELEVA	ATION:			
								PURGIN	IG DATA			,		
	DATE OF PU	RGING:		<u> </u>	2/13		:	_					•	
	DATE OF PURGING: ///12/13 PURGING METHOD: FANCE T TIME OF PURGING: ///O													
	PURGING RATE: VOLUME PURGED:													
								<u> </u>						1
		WE	LL VO	LUMES	PURG	SED			VOL	JME TO PUR	GE CALCULA	TION	ABLE	4
		Initial	1	2	3	4	5	6/Final	Well casing	Gallons Per Foot	Feet of Standing	3 Well	Total Volume to	1
	Time			ļ	ļ				Diameter (in.)	of Depth	Water	Volumes	Purge (Gal.)	1
	Water Level				·				1	0.041	Х	X 3		4
	рН				<u> </u>	ļ	<u> </u>	4	2	0.163	X	X 3		1
	Temp.				ļ	ļ		<del>     </del>	4		X	X 3		-
	Spec. Cond.	<u> </u>			<u> </u>	ļ			6	1.469	X	X 3	L	]
	Corr. Cond.			ļ	<u> </u>	ļ	<u> </u>		-					
	Redox Pot.			ļ	ļ	ļ	ļ				•		*	
	D.O.				<del> </del>	<u> </u>	ļ							
	Turbidity	<u> </u>			<u> </u>	<u>L</u>	<u> </u>	لببل						
								SAMPLI	NG DATA					
	DATE/TIME C	OF SAM	PLING:						SAMPLING	RATE (IF USING	DEDICATED PUMP	):		_
	SAMPLING M	TETHOD	):						STATIC WA	ATER LEVEL	(AFTER SAMPLING)	:	_	_
	<del></del>	<del></del>			-			NO	TES					<del></del>
	Olateral	o f	<u>م</u>	1 ;	مار د م	ture	/ .		Resident	wis n	+ Lone	SAM	ple	
	Was no	<u> </u>	Hec.	<u>ما ت</u>	<u>'.</u>	10/12	<u> </u>	<del>- 11 )  </del>	1,000.7	7.76	· / FIDI .C.	<u>۱۳۳۲</u>	<i>y</i> 10-	-
	EXPLOSIVE GAS RE			TIC WATE	R LEVEL:		%CH4:			%LEL:	_			-
	THE FOOIAT GUG VE	A PING I NIC					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					•		

### **Calibration Record**

ALBION LANDFILL

#### Instruments:

HORIBA 4-52

GASCOPE 625

	1	22	3	4 ·	5	6
Date:	11-11-13	11-11-13	11-11-13	11-12-13	11-12-13	
Time:	0430	1204	1800	0430	1/20	
pH 4:	4.00	4.98	4.99	4.00	4,00	
les s - s s	-7,-	7.13	7. 7 /	9,00	9,00	
pH 7:	-	6.98	7.01		6.98	
pH 10:		9,99	10,00		7.99	
pH Slope:						
hii diahai					<u> </u>	
Cond. 4490:	4490	4500	4500	4490	4480	
Cond. Slope:			-	<i></i>	1	
D.O.		·	·			
ט.ט.						
CH <sub>4</sub> 2.5 %:	2,5	7	_	_	_	
• .						
LEL 50%:	50			_ ·	-	

### <u>Units</u>

pH:

S.U.

Conductivity: umhos/cm

D.O.

mg/L

Date: 1/24/3	Time On-Site: 0850 Time Off-Site: 1148
Site: ALBION LAMPHIL	Weather: clear Temp: 9°F
Inspector: mike cherchel.	Wind Direction: NOSMON
Signature:	Barometric Pressure: 30.52 12
Inspection Tasks	•
Existing Monitoring System	•
A. Condition of Monitoring Wel	1 System: 1911 wells are locked and secure:
pads are covered by sno	w.
<del> </del>	
Condition / Integrity of Landfill	
A. Erosion none porticed	
B. Stressed Vegetation none Pro	stied CAP I Sour casered.
C. Physical Damage None 10	t.ced
D. Surface Water Control Structu	res Good

Perimeter Fencing and Warning Signs	
A. Condition of Fencing: Good	
B. Warning Signs: Pasted	

.

;

Date: 7/16/13	Time On-Site: <u>0844</u>	Time Off-Site: 1200
Site: ALBION LANOF.H	Weather: clear	Temp: <u>85</u>
Inspector: muce chereha!	Wind Direction: <u>ω</u>	5-10 rap 11
Signature:	Barometric Pressure:	30.344
Inspection Tasks		
Existing Monitoring System	•	
A. Condition of Monitoring Well wells are locked and recore.	System: paus are Courses	with vegitation
Delli GIC Turken Chin Tecore.		
Condition / Integrity of Landfill		
A. Erosion None noticed		
B. Stressed Vegetation None por	riced	-
	,	
C. Physical Damage None Notes	ed	
D. Surface Water Control Structure	es <u>Con</u> l	

Perimeter Fencing and Warning Signs
A. Condition of Fencing: Good. A large portion of the fence is covered with vegitation some of the perimeter fencing is
ngexellable due to the vegitation
. Warning Signs: Some are laded, Entrence to the Landfell has

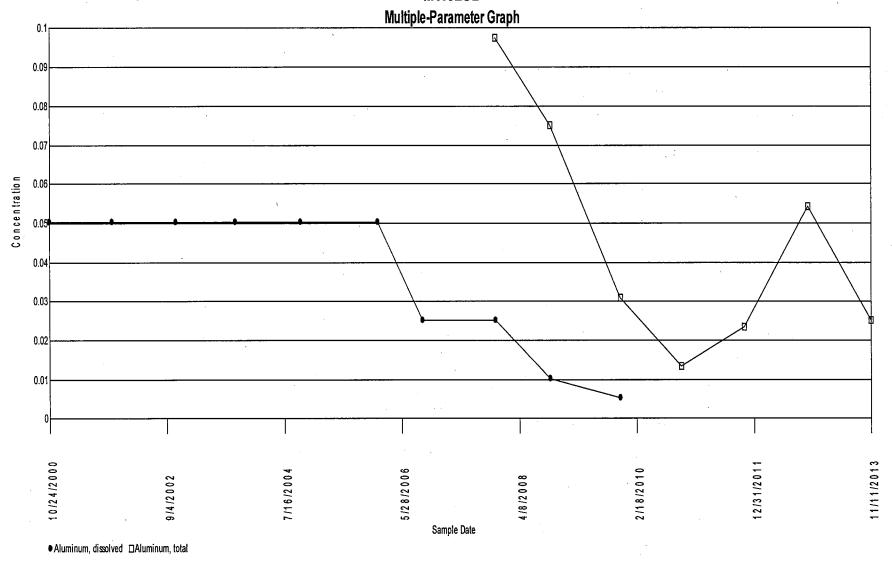
### **APPENDIX C**

Monitoring and Residential Well Time-Series Plots

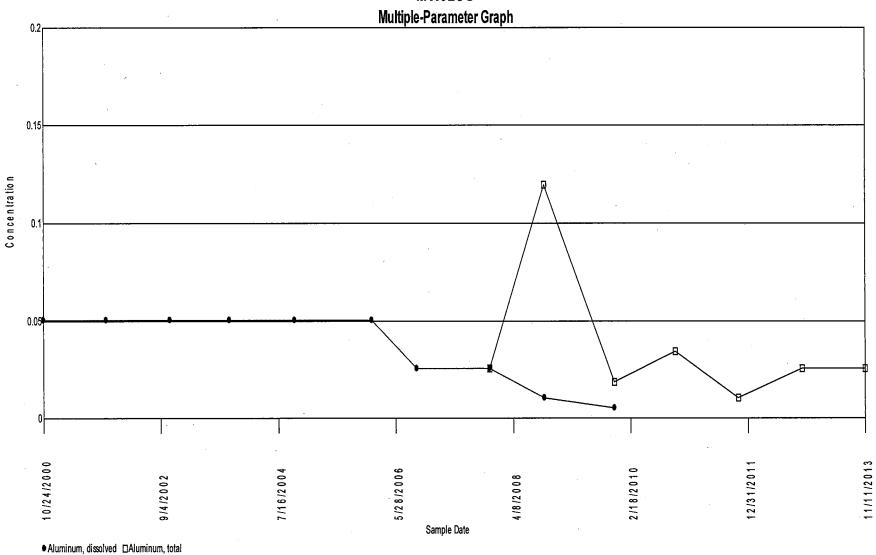
#### **ALUMINUM**

HULL & ASSOCIATES, INC. TOLEDO, OHIO

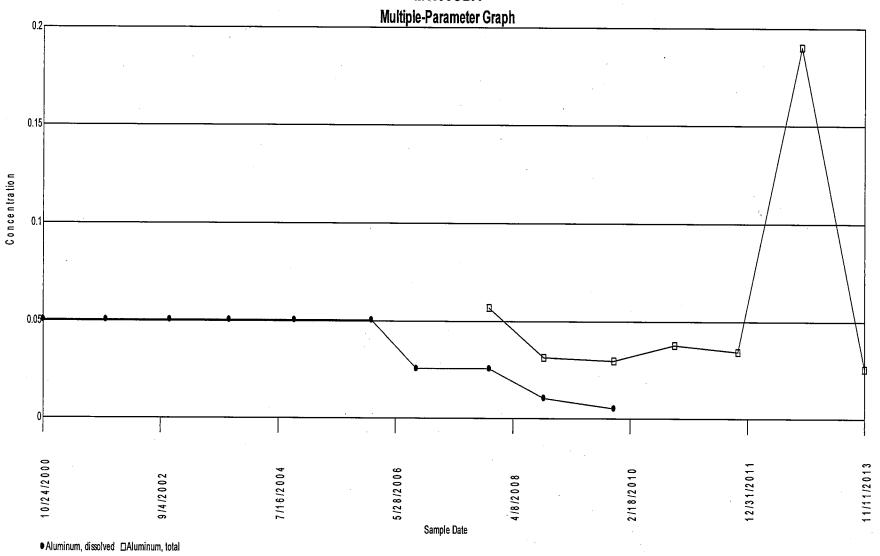
### MW02SB



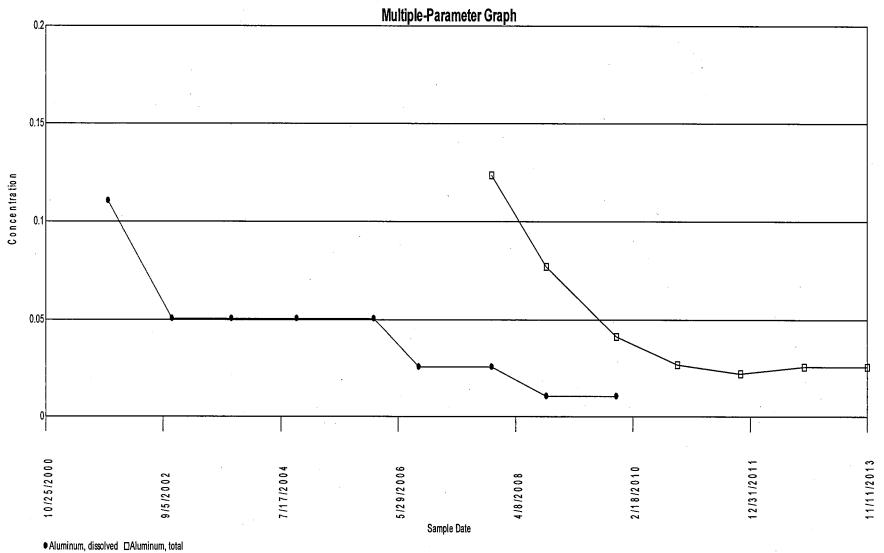
### MW02SG



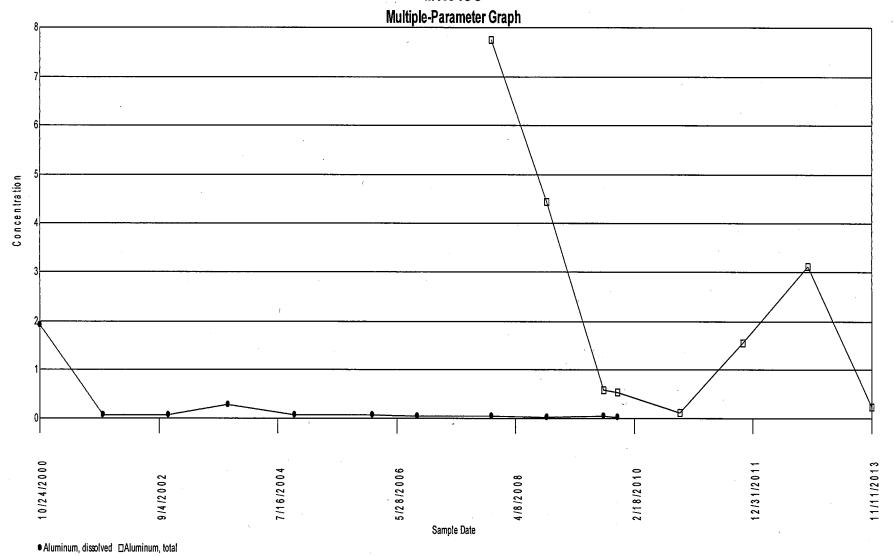
### MW03SBA



### MW04SB

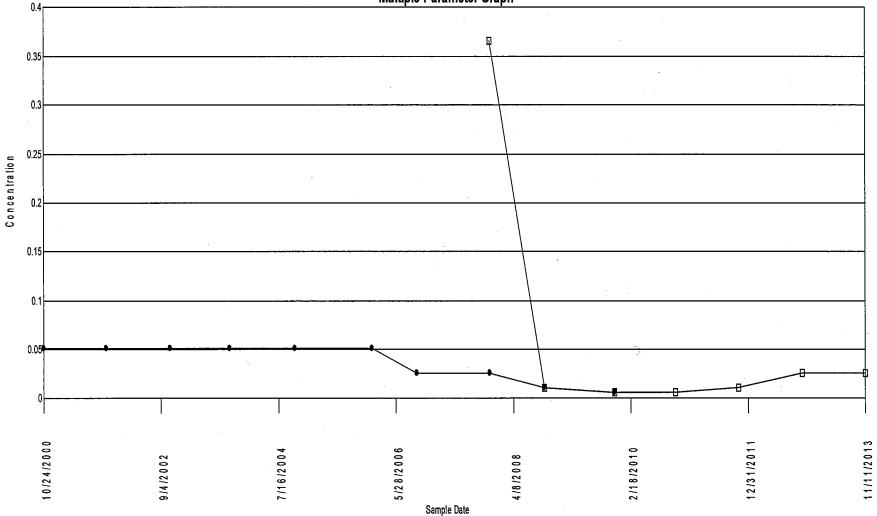


MW04SG



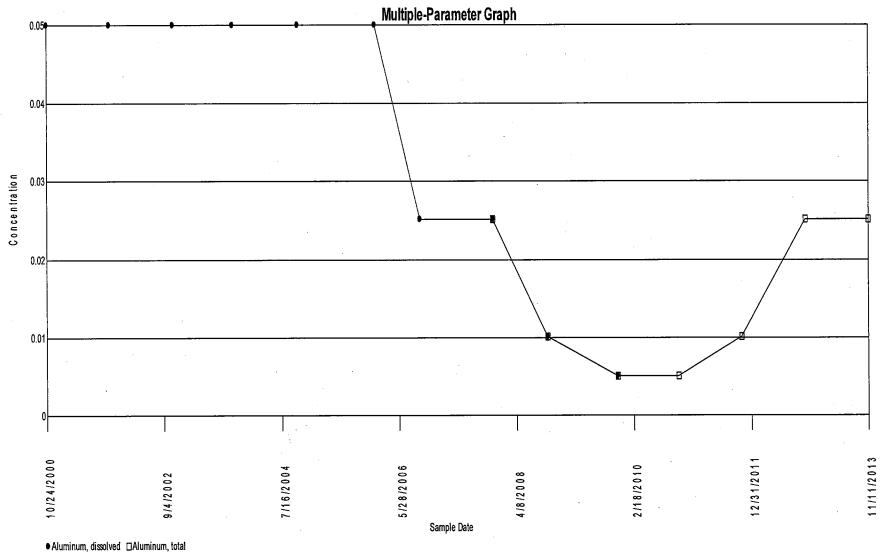
### MW05SB





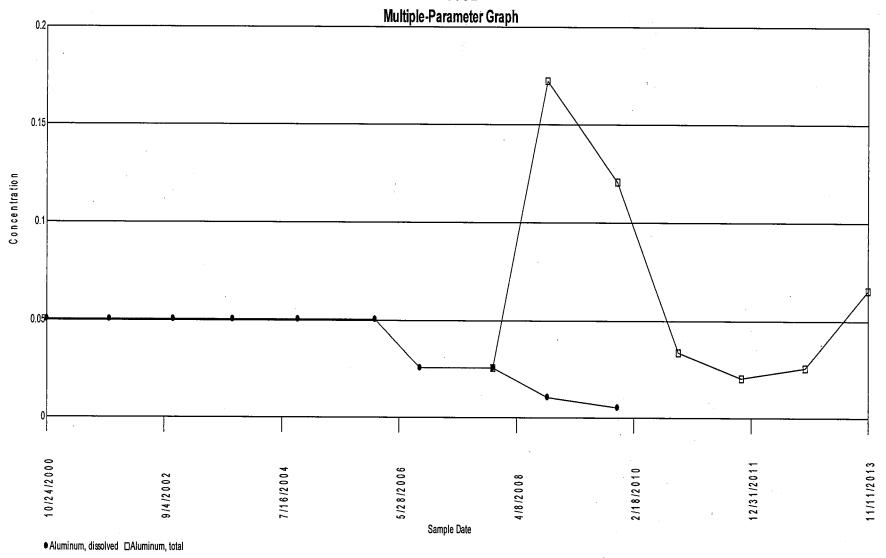
● Aluminum, dissolved □ Aluminum, total

### MW05SG

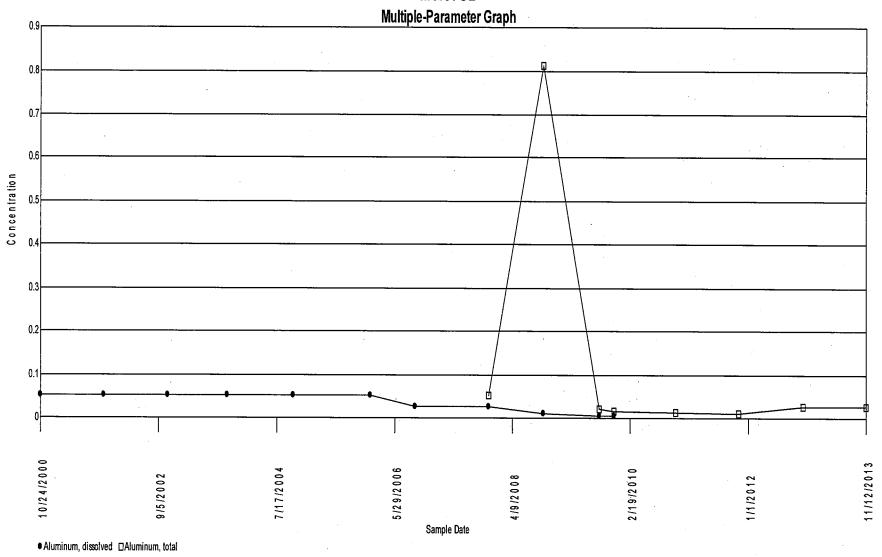


Traditional, dissorted Distantingin, total

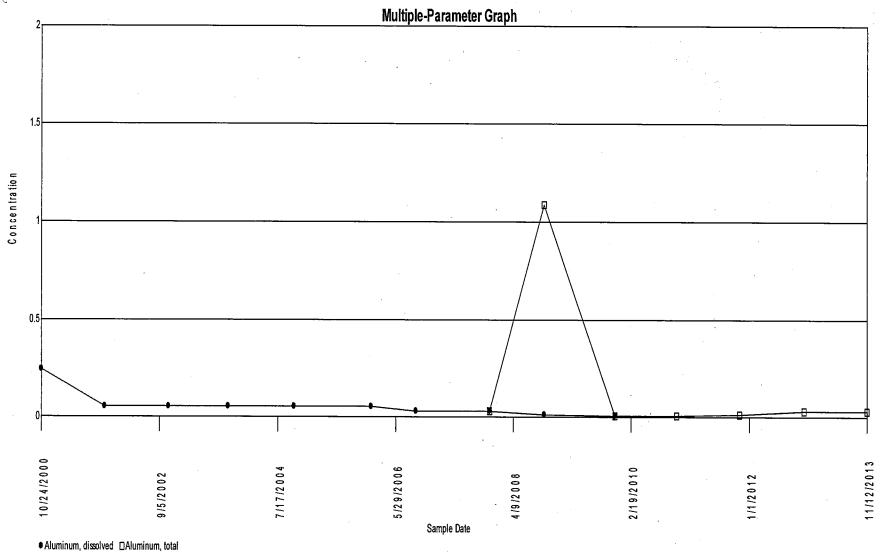
MW06SB



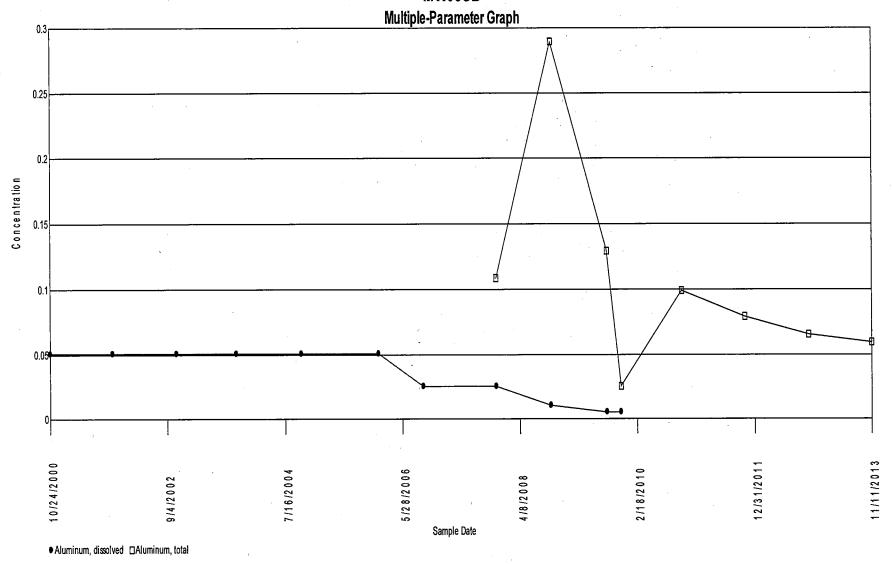
#### MW07SB



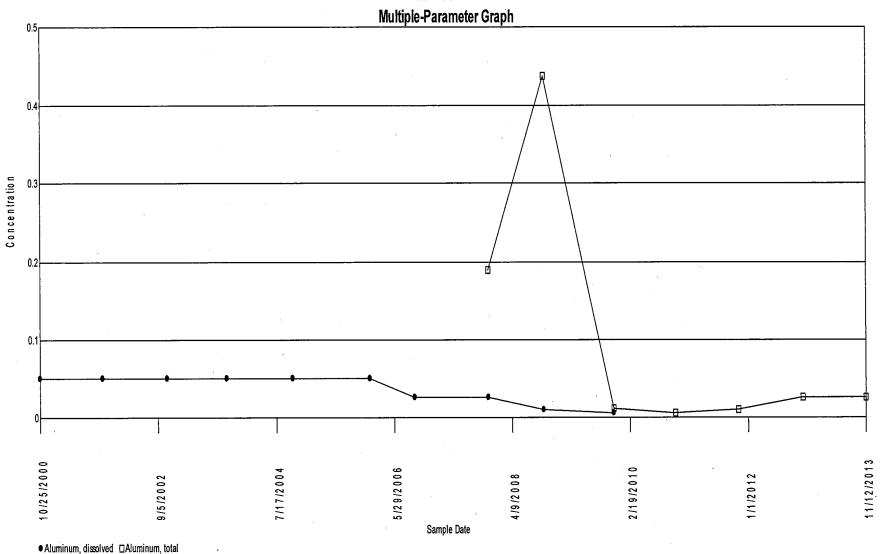
MW07SG



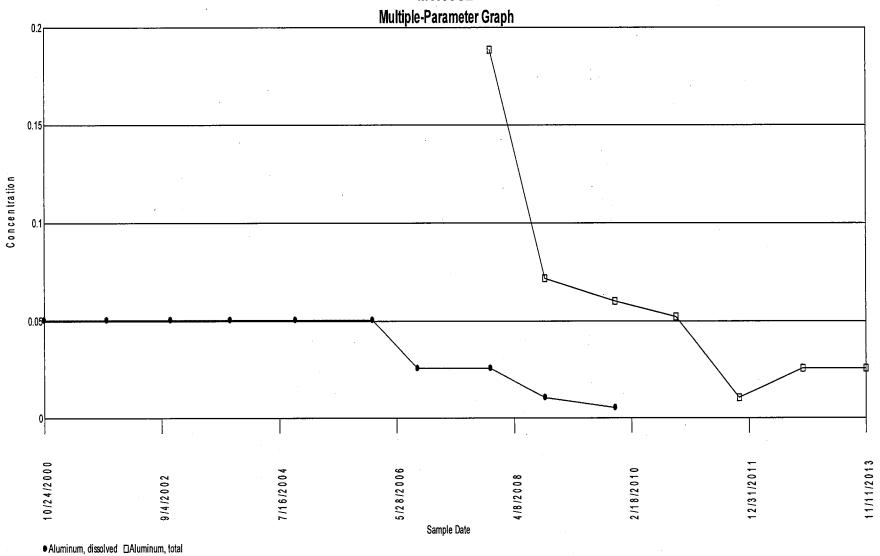
### MW08SB



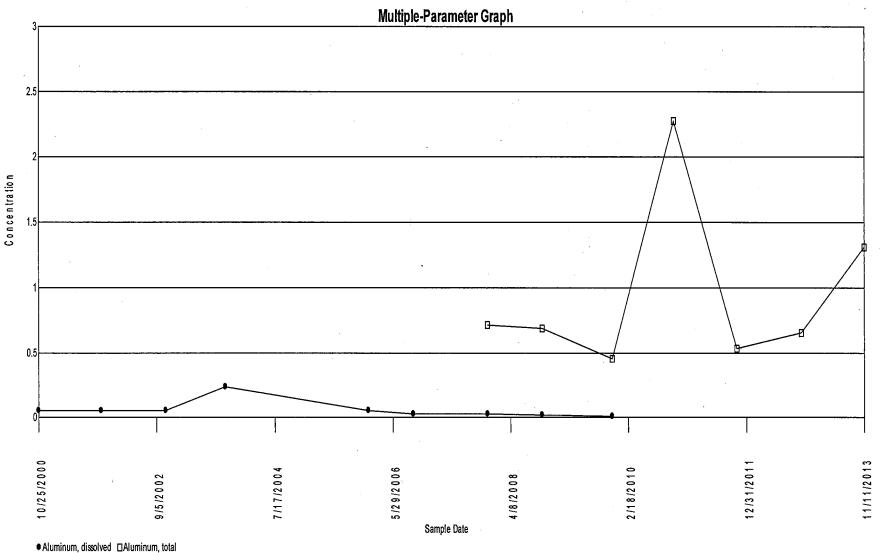
### MW09DB



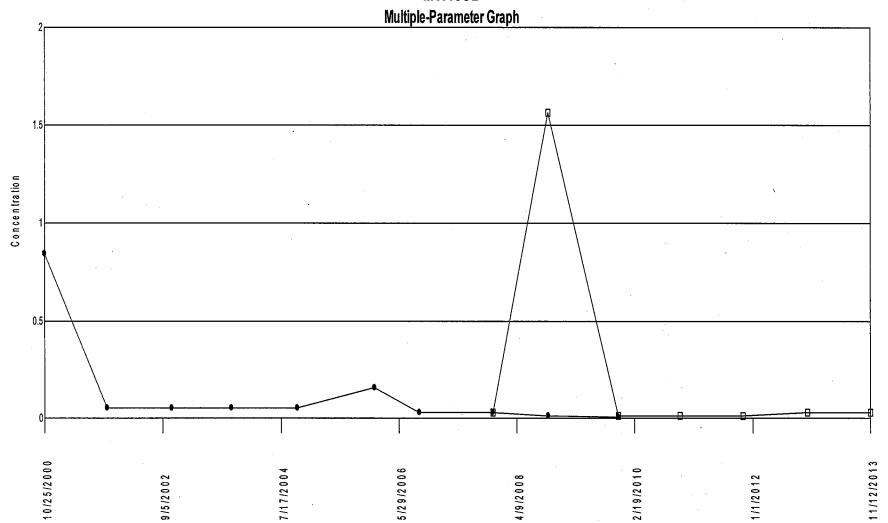
### MW09SB



MW10SG



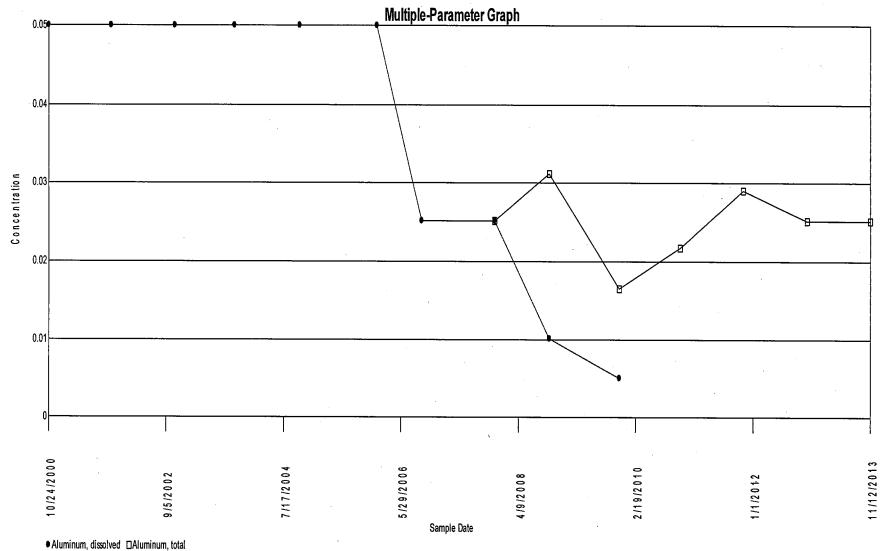
### MW15SB



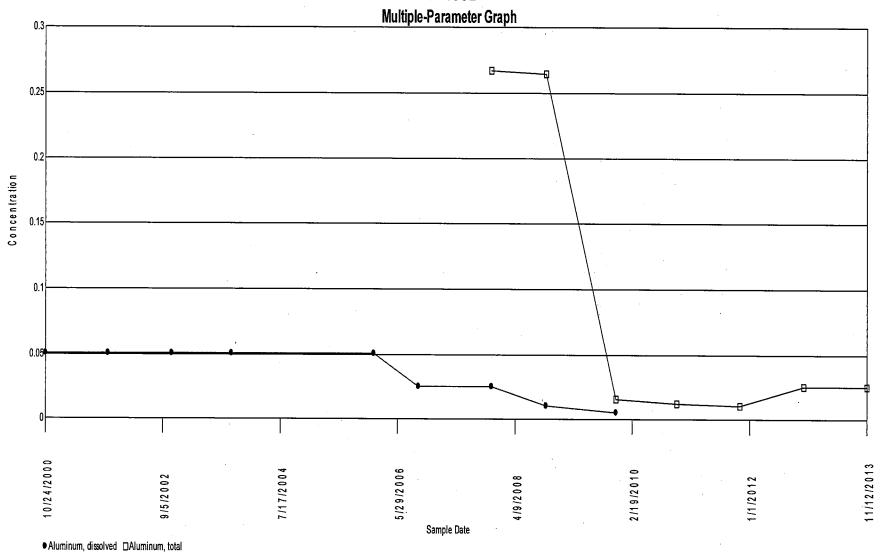
● Aluminum, dissolved □ Aluminum, total

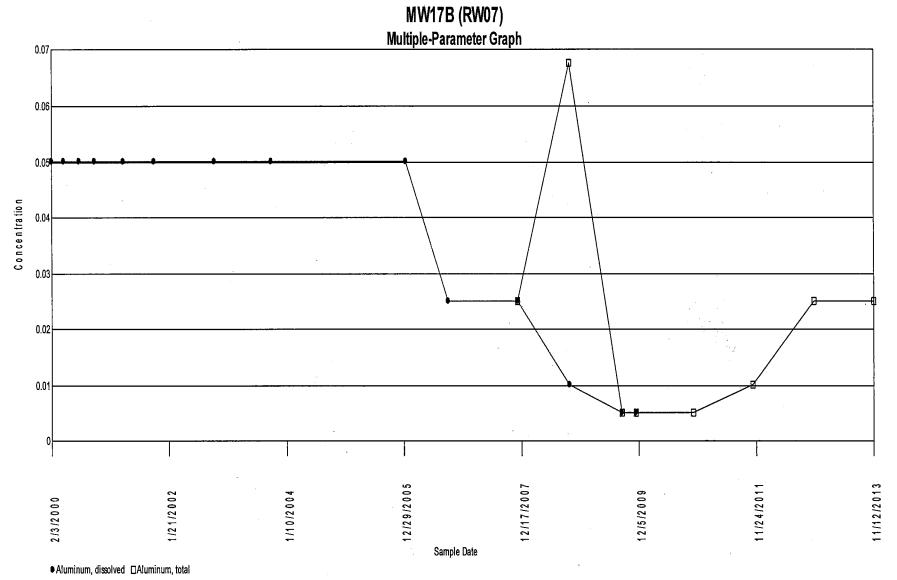
Sample Date





#### MW16SB

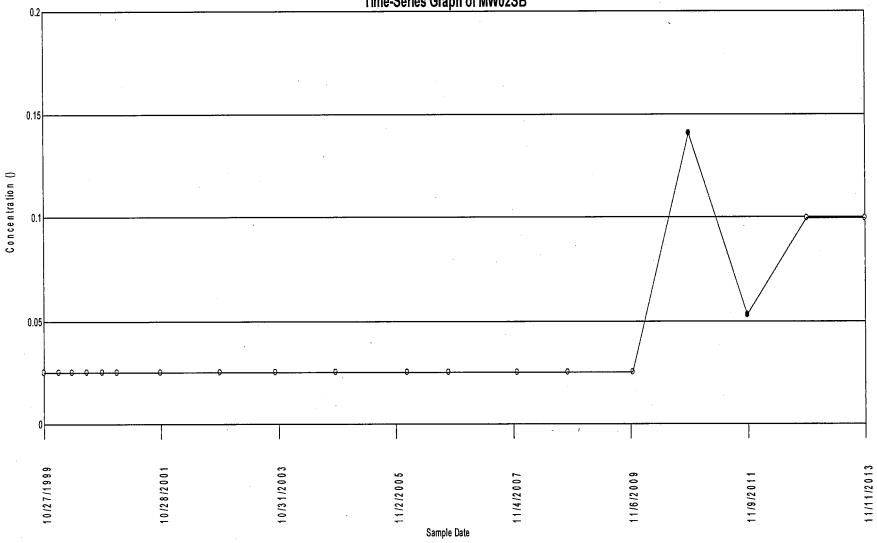


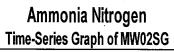


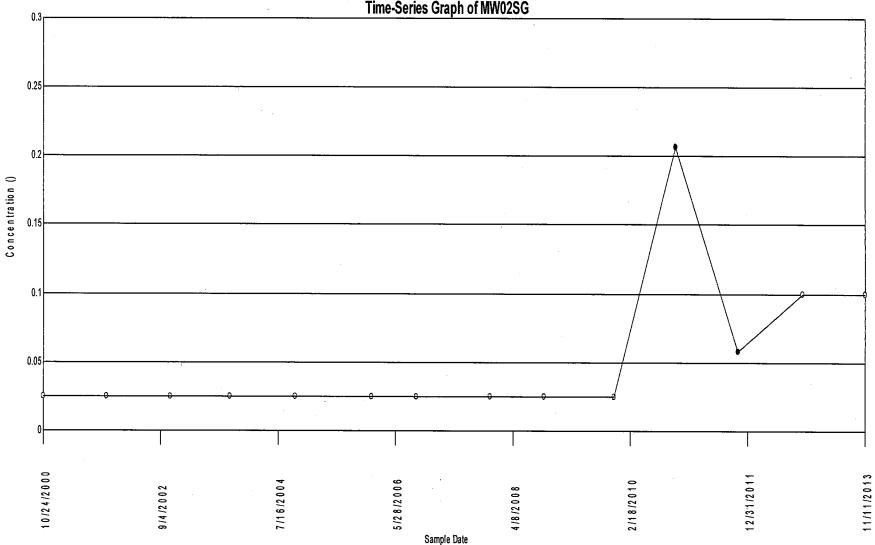
**AMMONIA NITROGEN** 

HULL & ASSOCIATES, INC. TOLEDO, OHIO

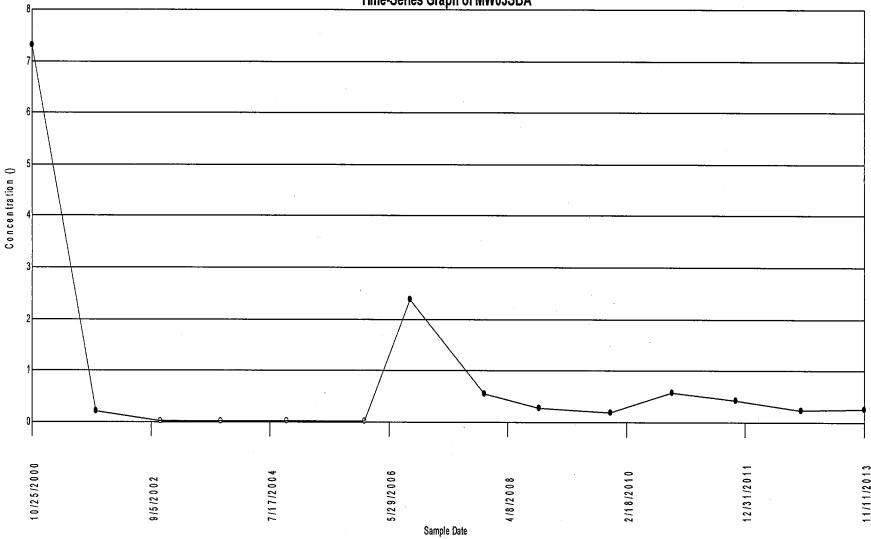
# Ammonia Nitrogen Time-Series Graph of MW02SB



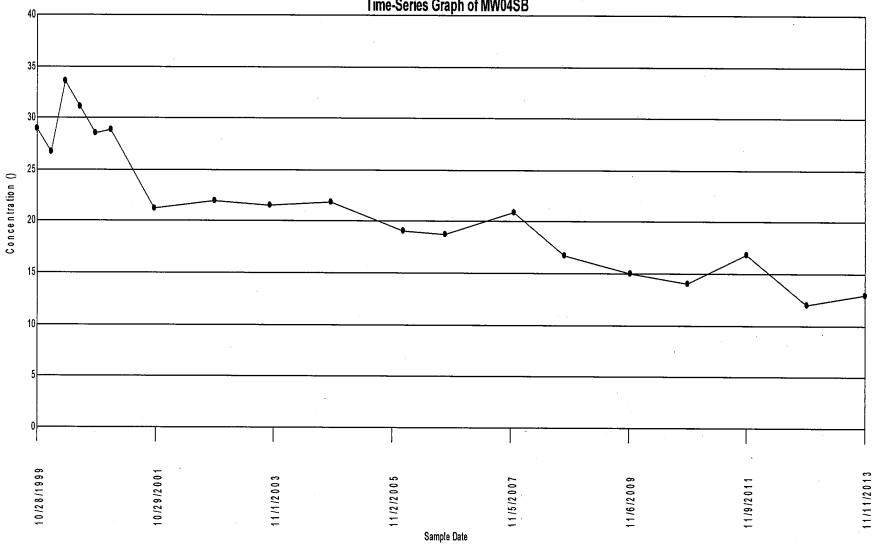




# Ammonia Nitrogen Time-Series Graph of MW03SBA

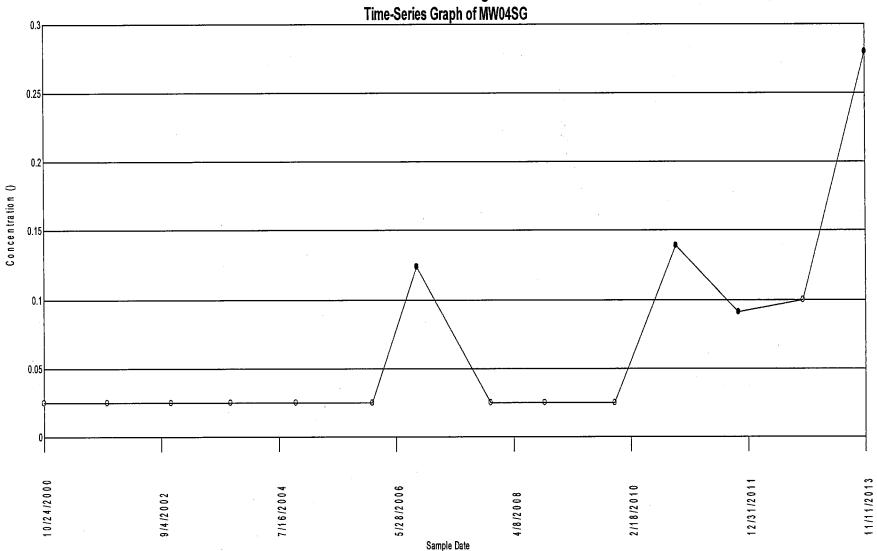


### Ammonia Nitrogen Time-Series Graph of MW04SB

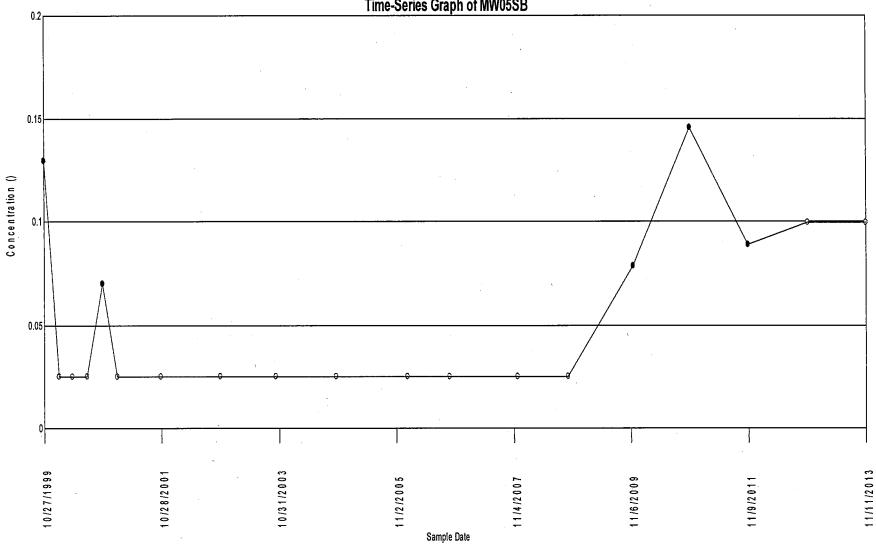


#### ALBION-SHERIDAN TOWNSHIP LANDFILL

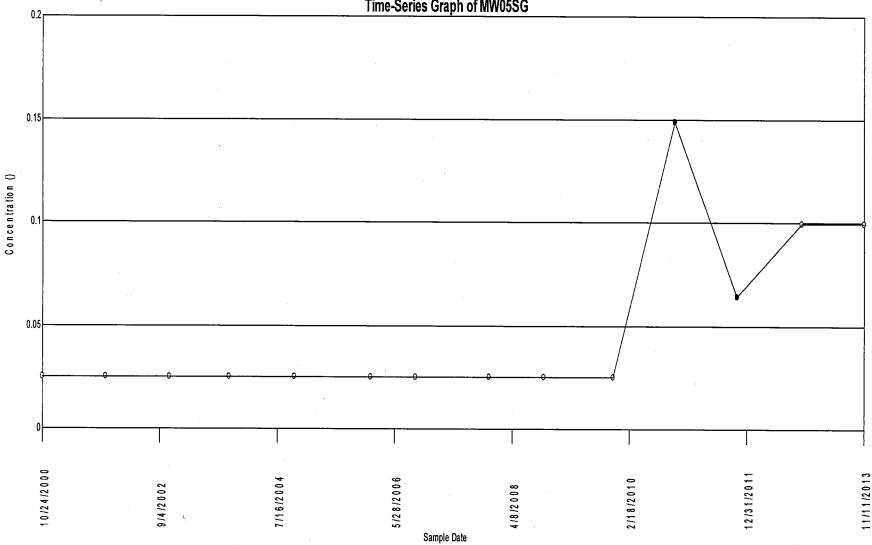
## Ammonia Nitrogen



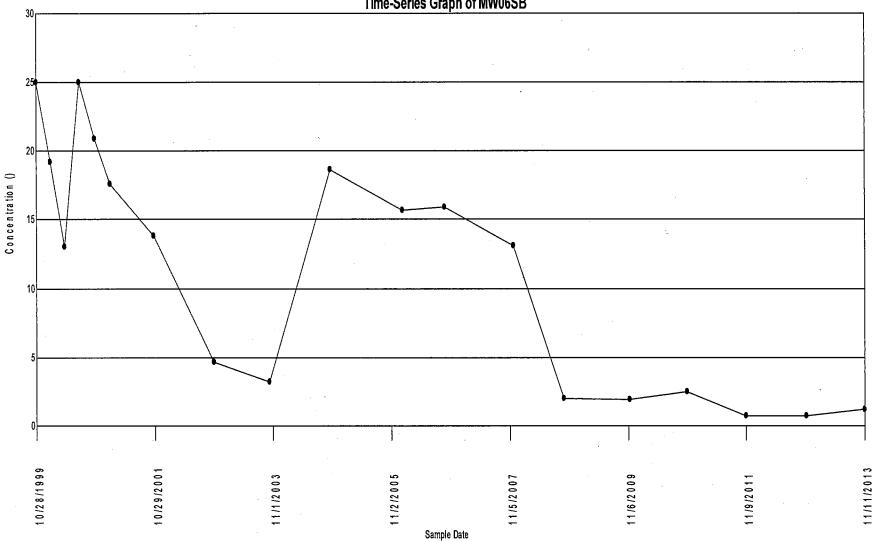
### Ammonia Nitrogen Time-Series Graph of MW05SB



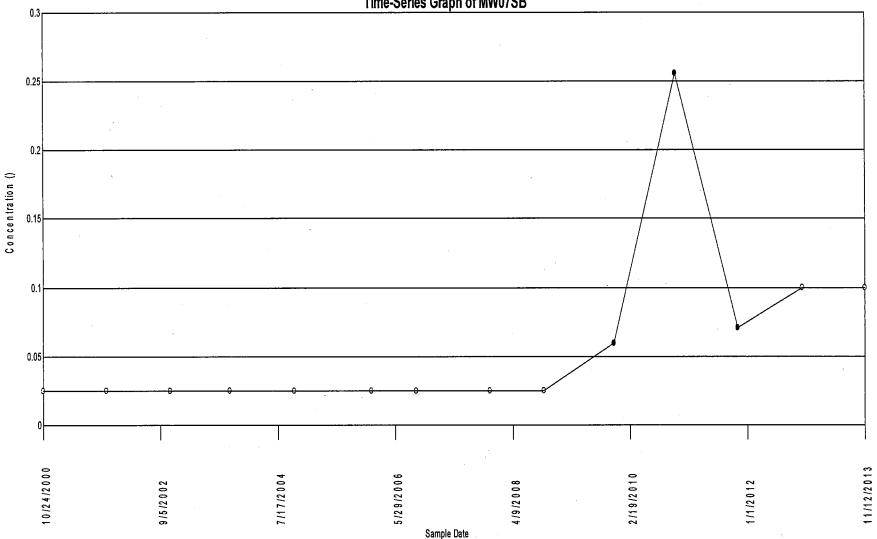
### Ammonia Nitrogen Time-Series Graph of MW05SG



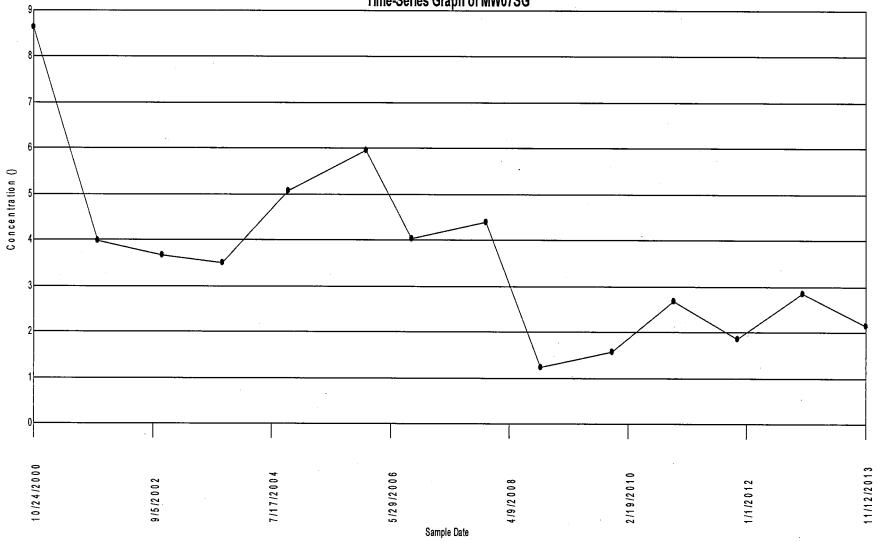
### Ammonia Nitrogen Time-Series Graph of MW06SB

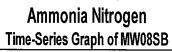


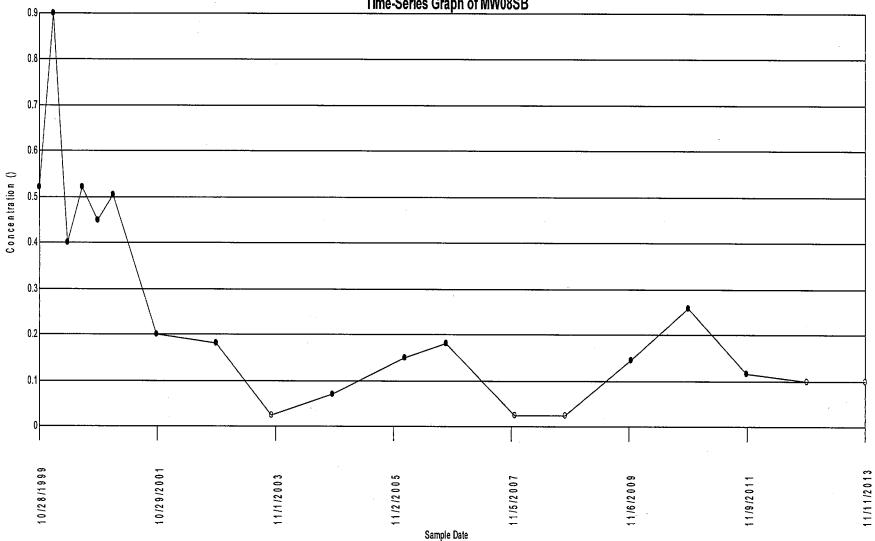
### Ammonia Nitrogen Time-Series Graph of MW07SB



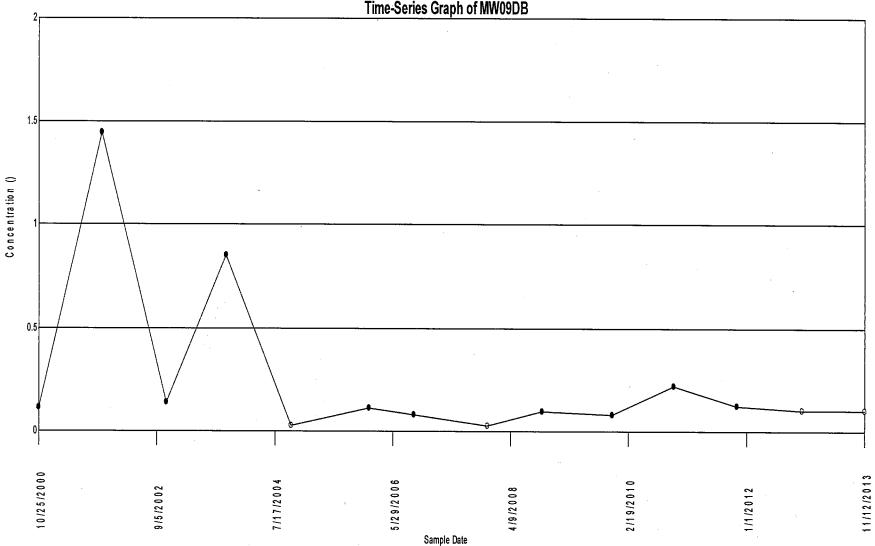
### Ammonia Nitrogen Time-Series Graph of MW07SG



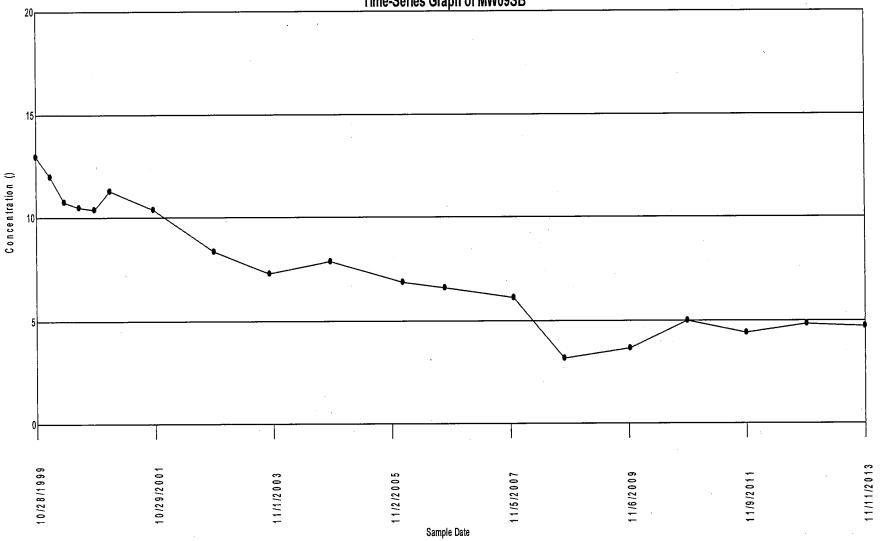


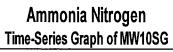


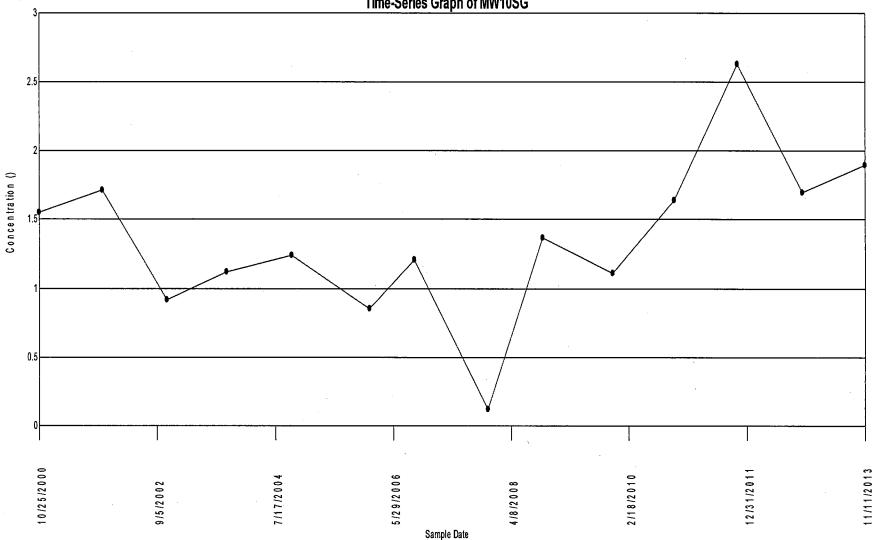
### Ammonia Nitrogen Time-Series Graph of MW09DB

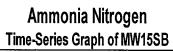


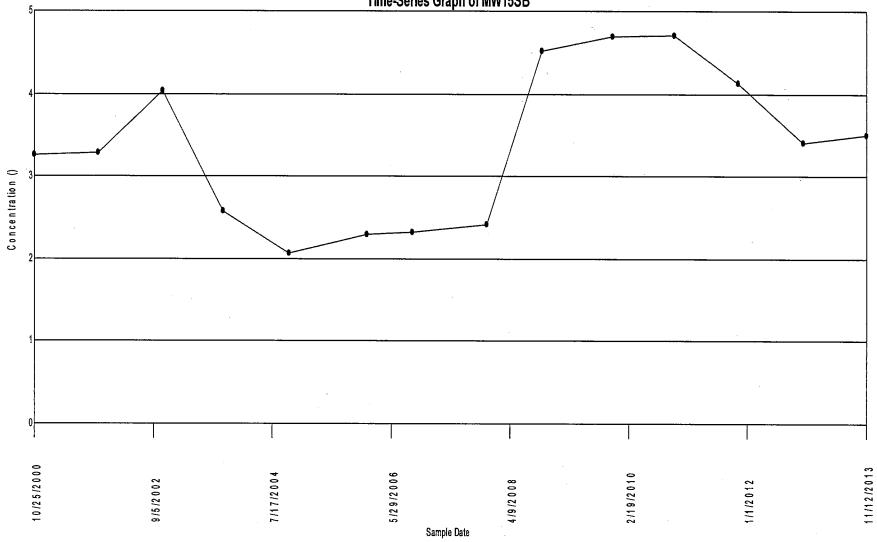
#### Ammonia Nitrogen Time-Series Graph of MW09SB



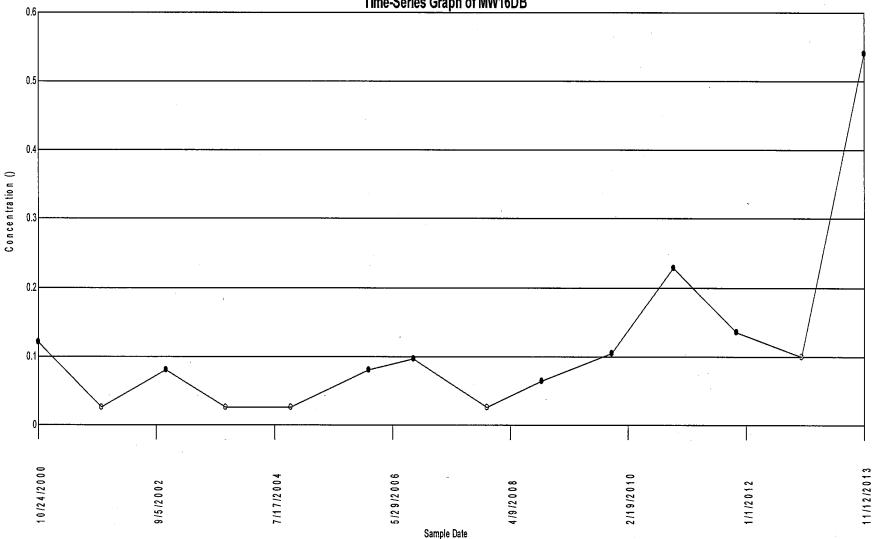


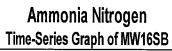


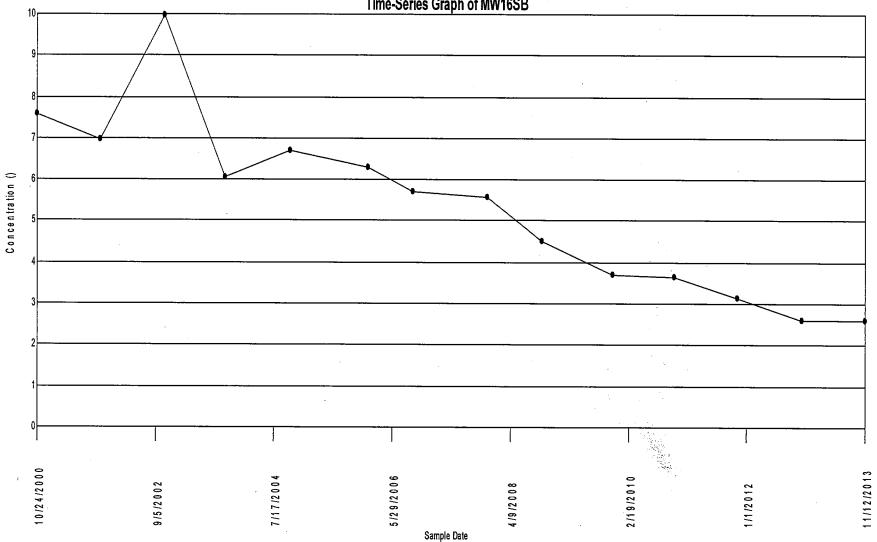




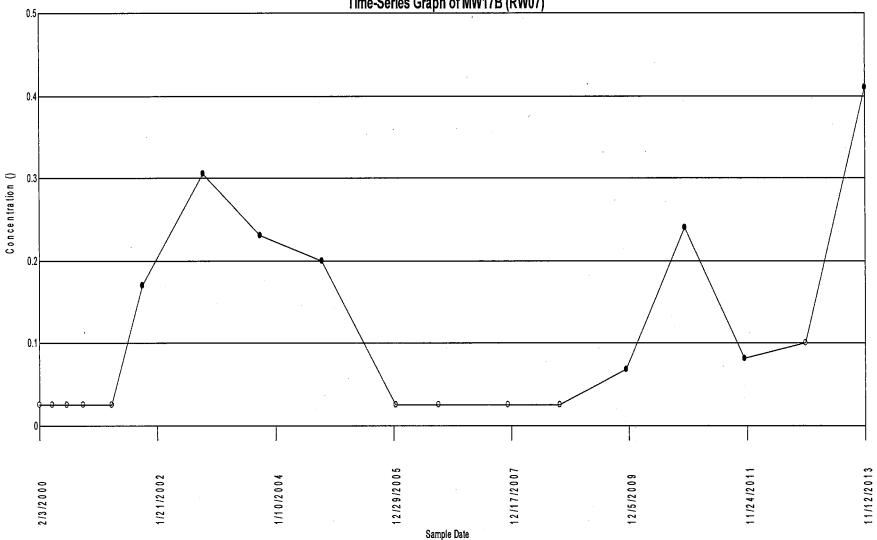
### Ammonia Nitrogen Time-Series Graph of MW16DB



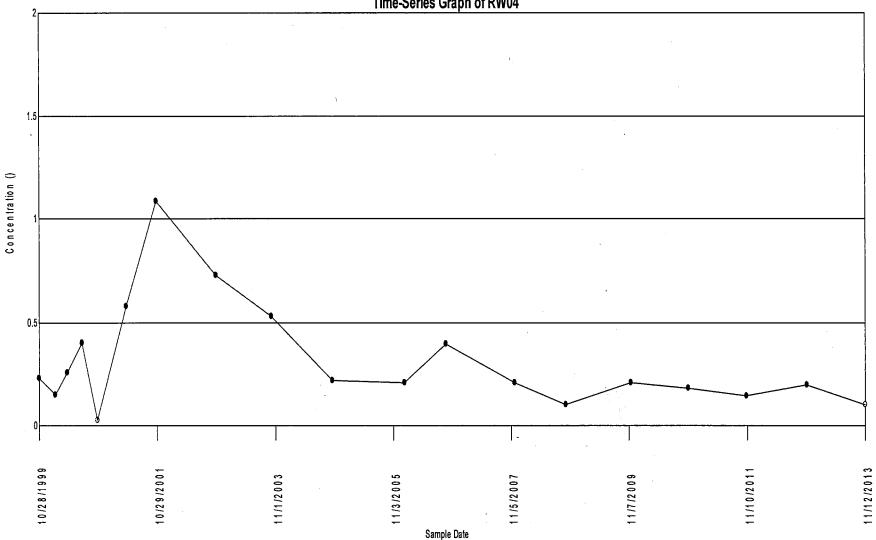




### Ammonia Nitrogen Time-Series Graph of MW17B (RW07)



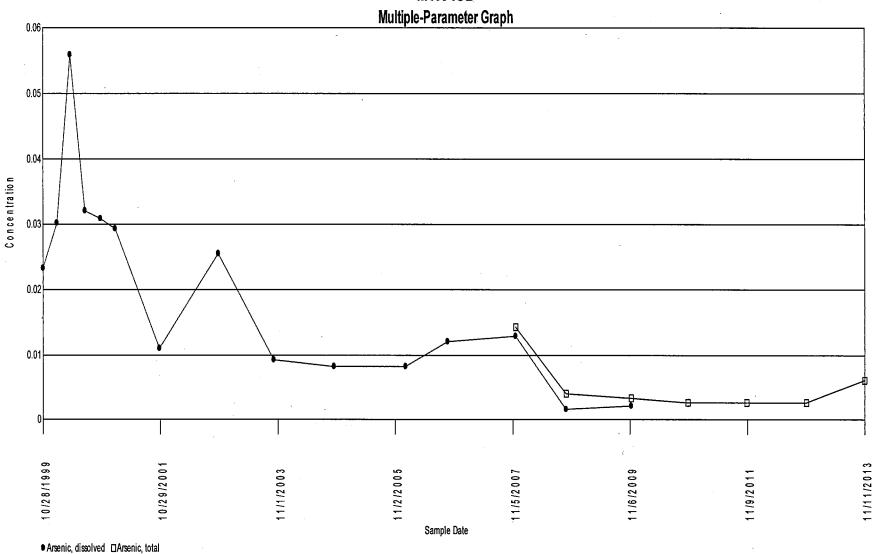
### Ammonia Nitrogen Time-Series Graph of RW04



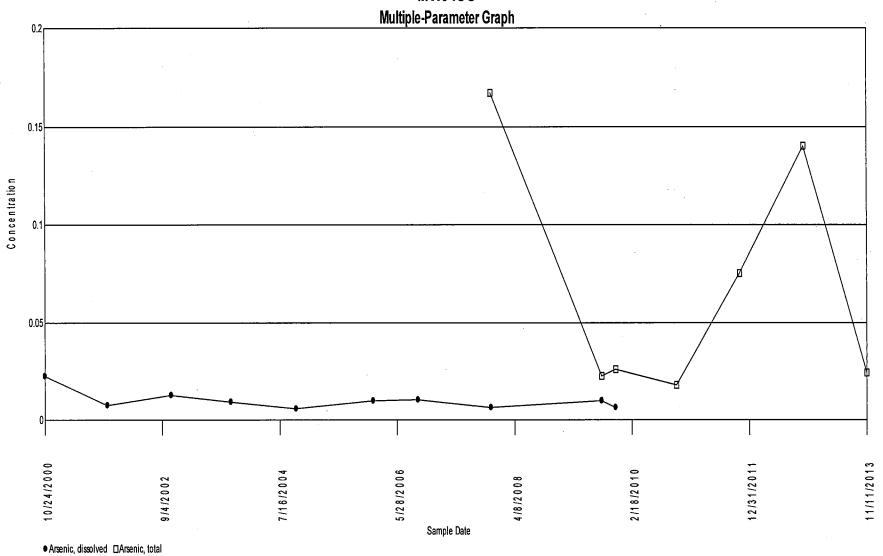
#### **ARSENIC**

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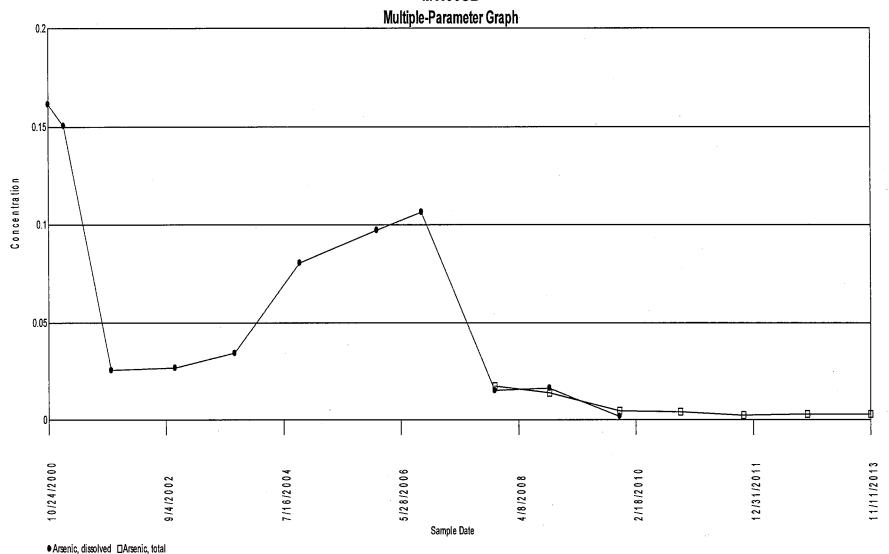
#### MW04SB



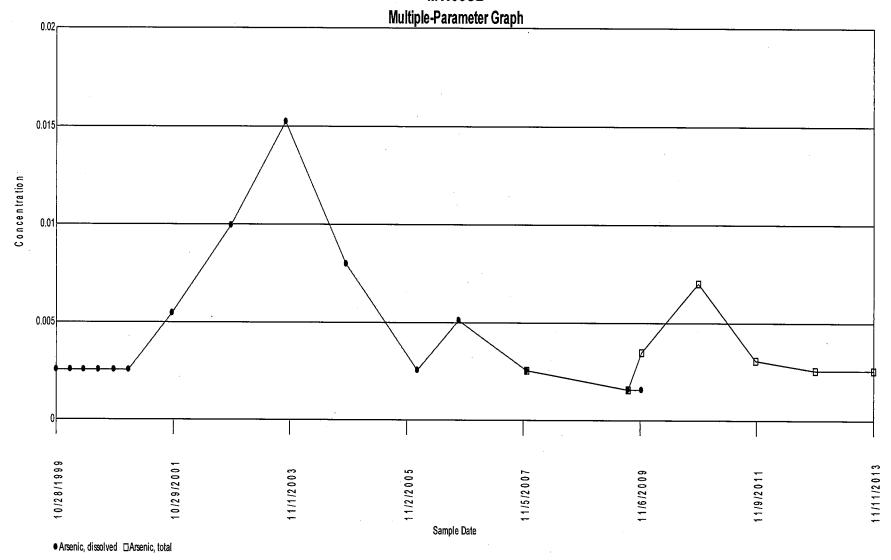
### MW04SG



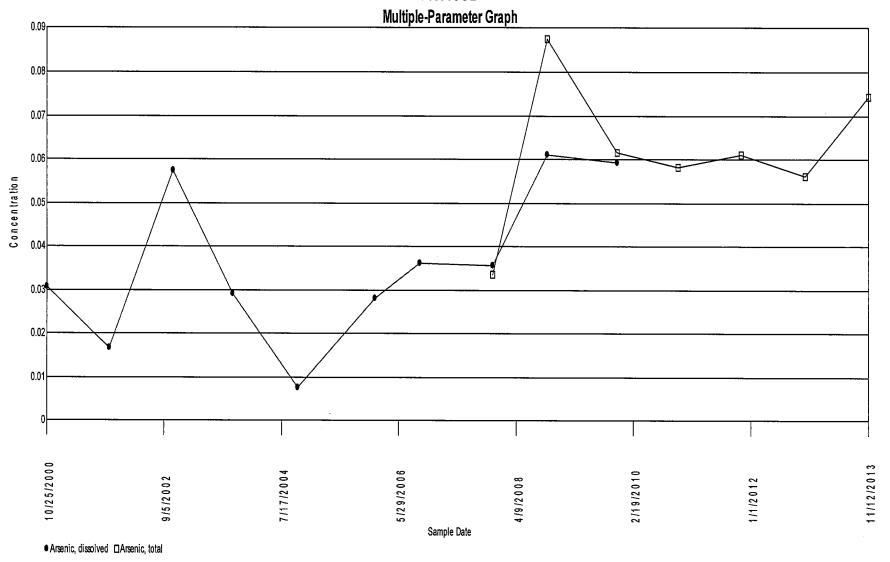
#### MW06SB



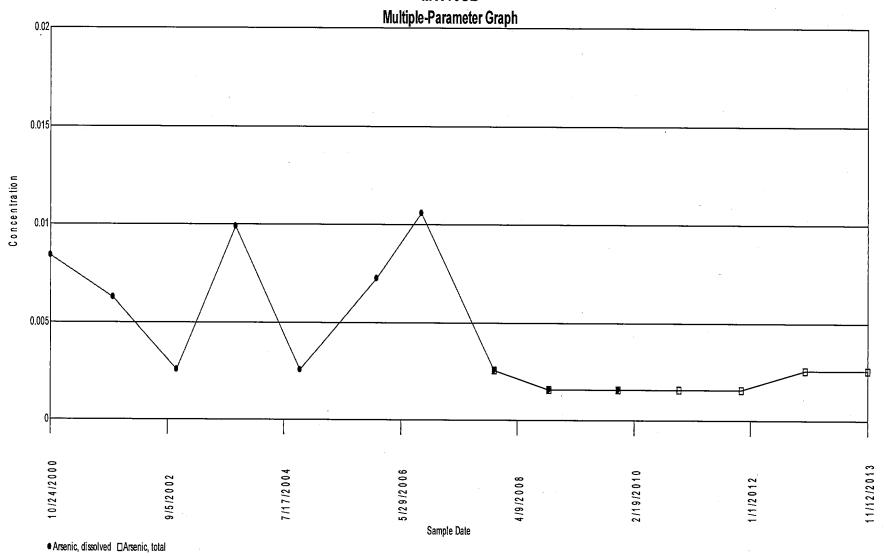
### MW08SB



#### MW15SB



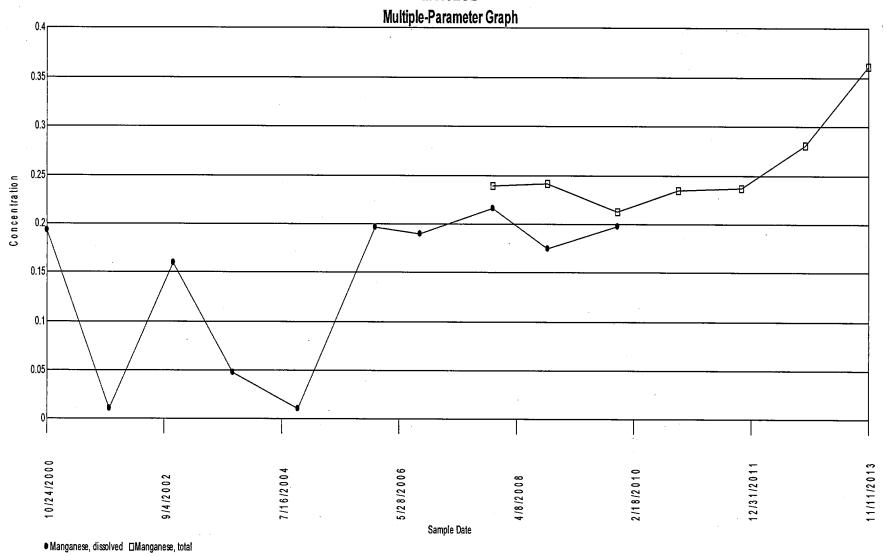
### MW16SB



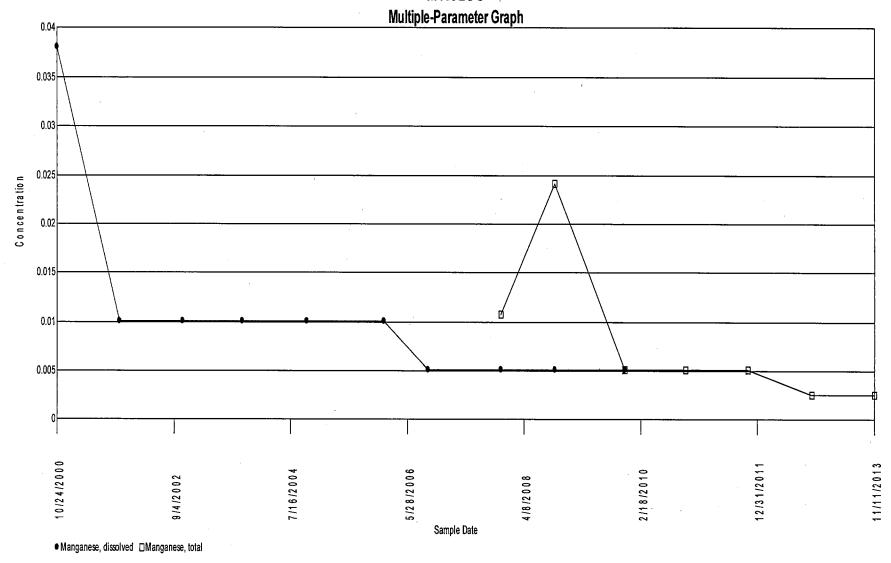
**MANGANESE** 

HULL & ASSOCIATES, INC. TOLEDO, OHIO

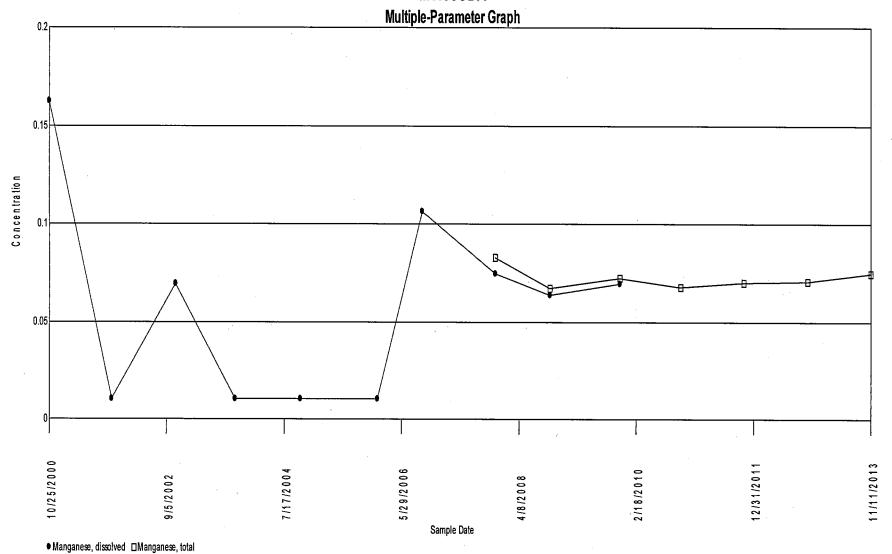
### MW02SB



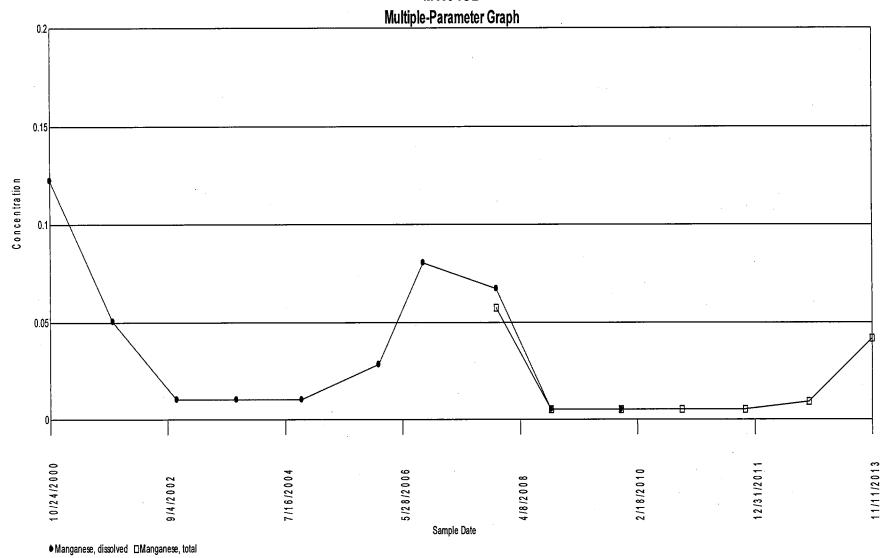
### MW02SG



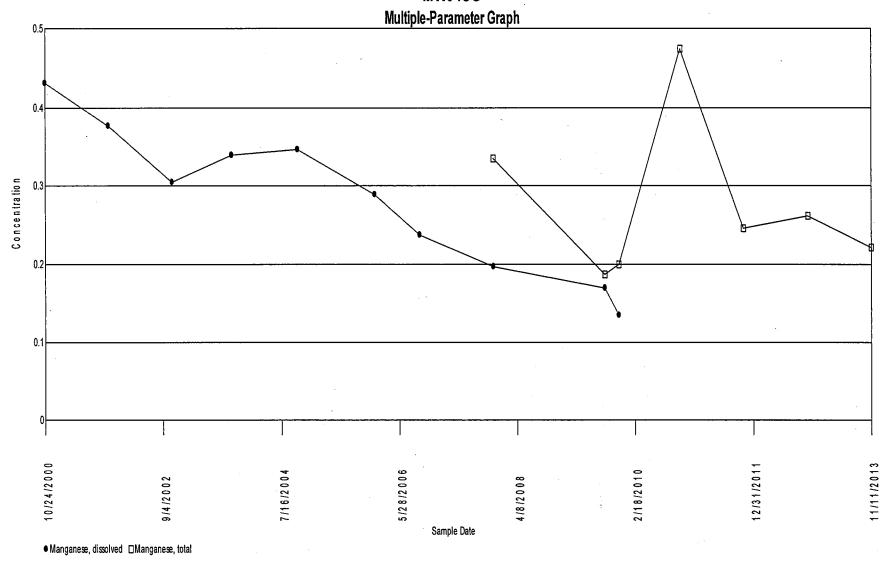
# MW03SBA



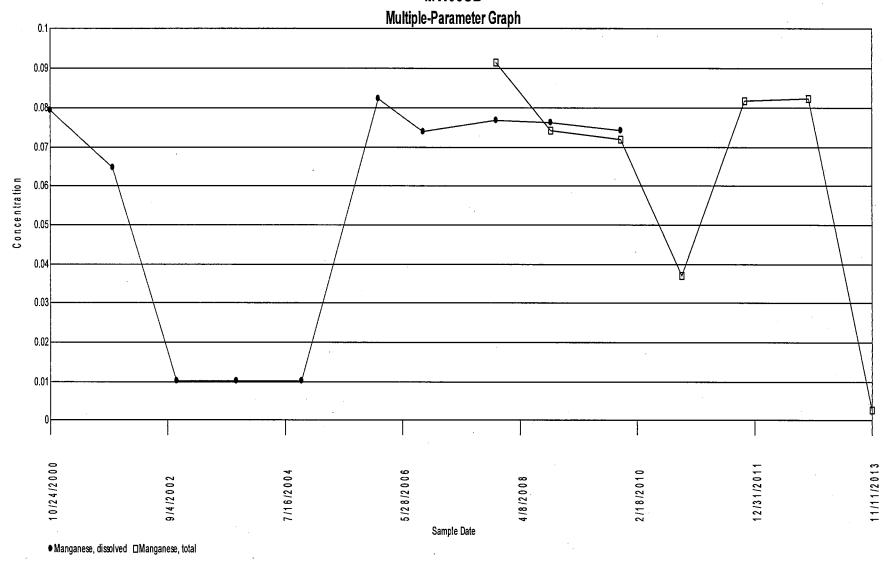
### MW04SB



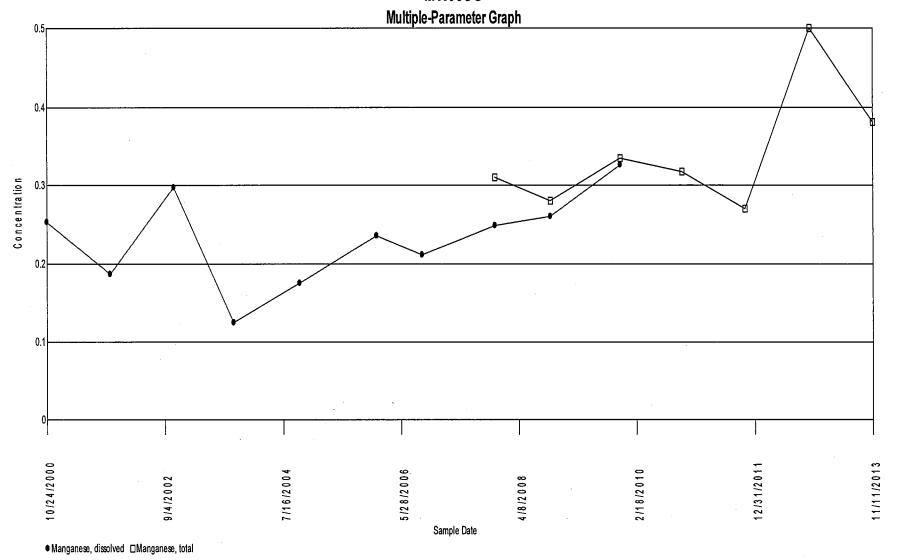
### MW04SG



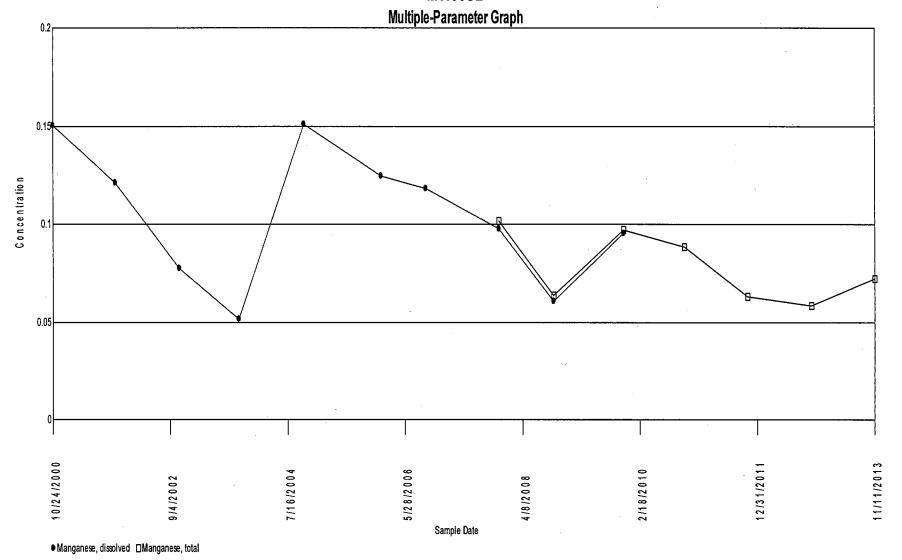
#### MW05SB



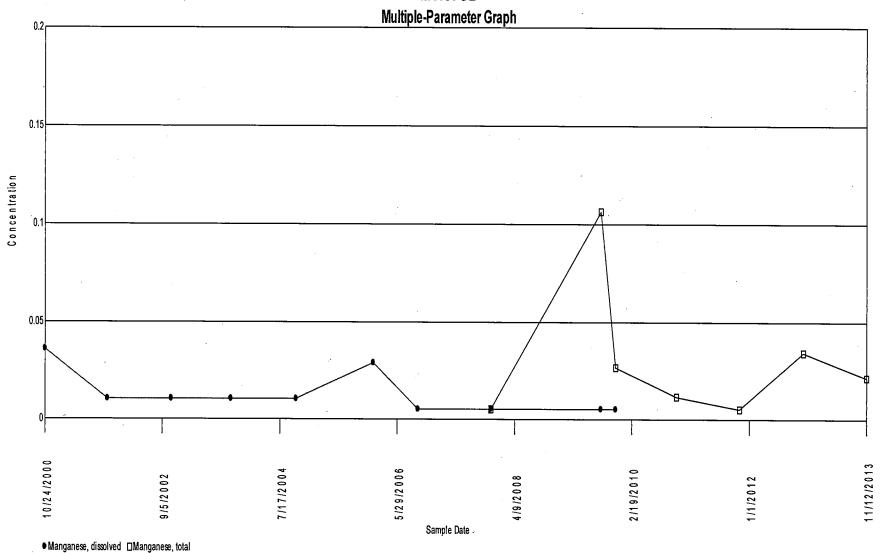
### MW05SG



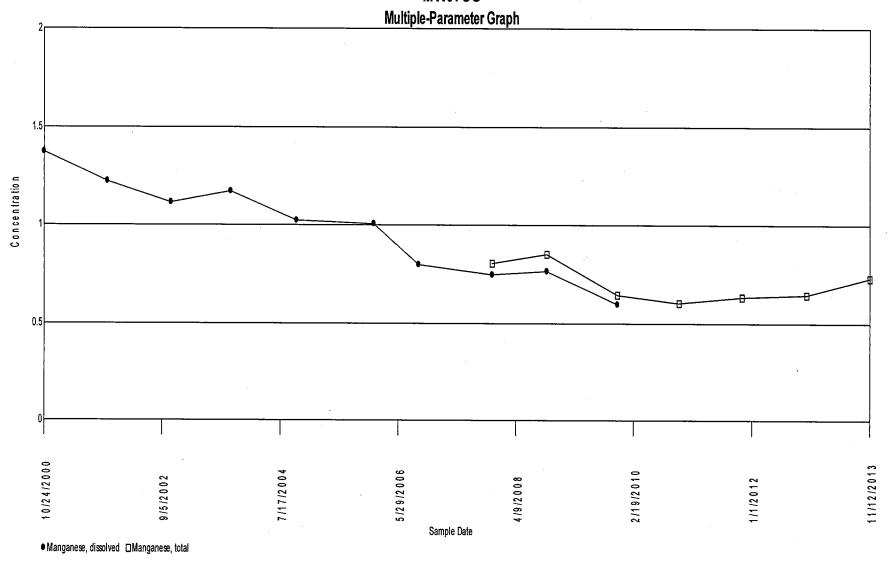
### MW06SB



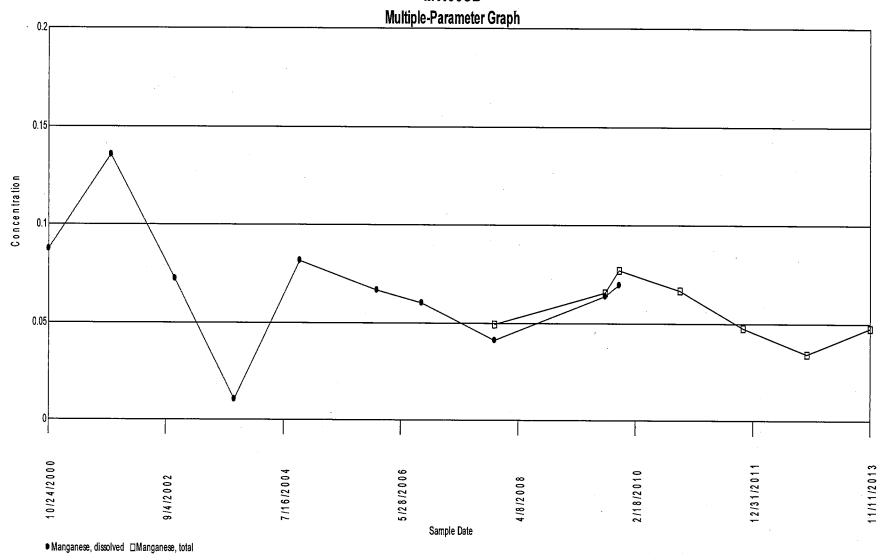
### MW07SB



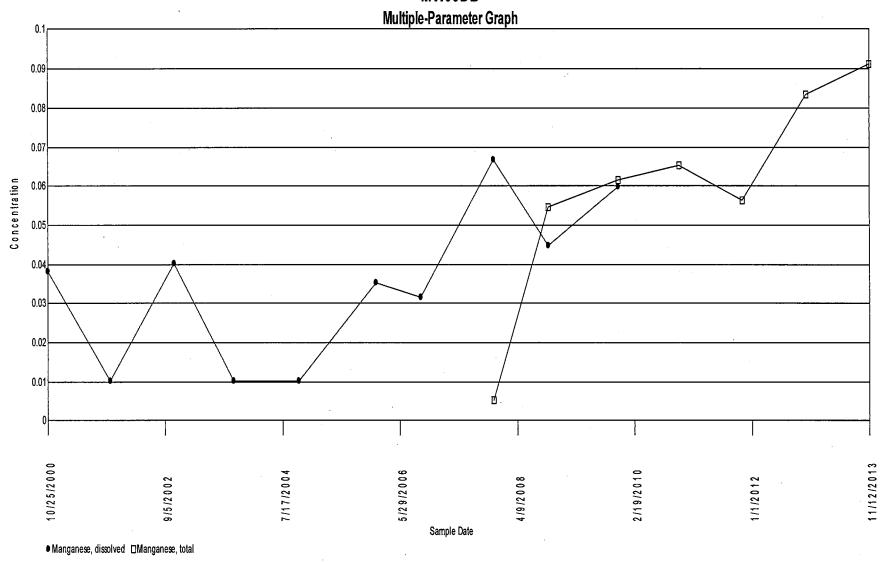
MW07SG



### MW08SB



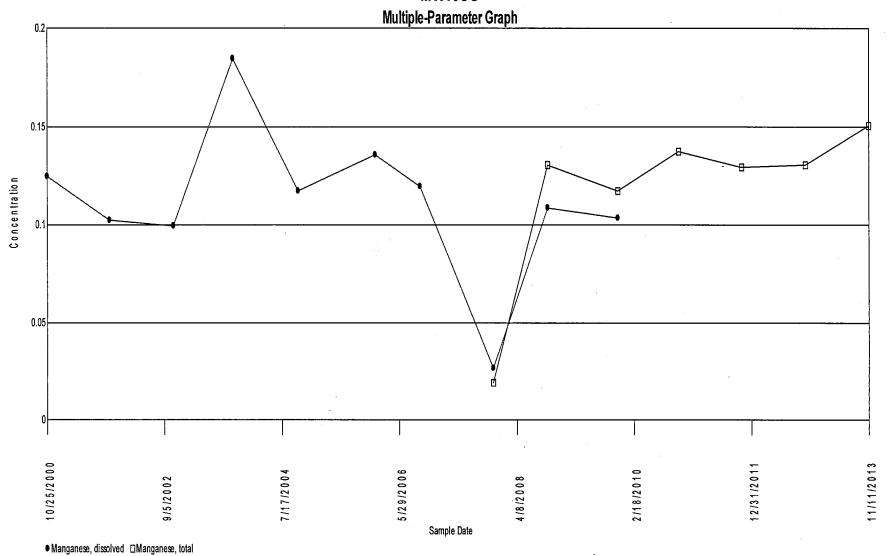
### MW09DB



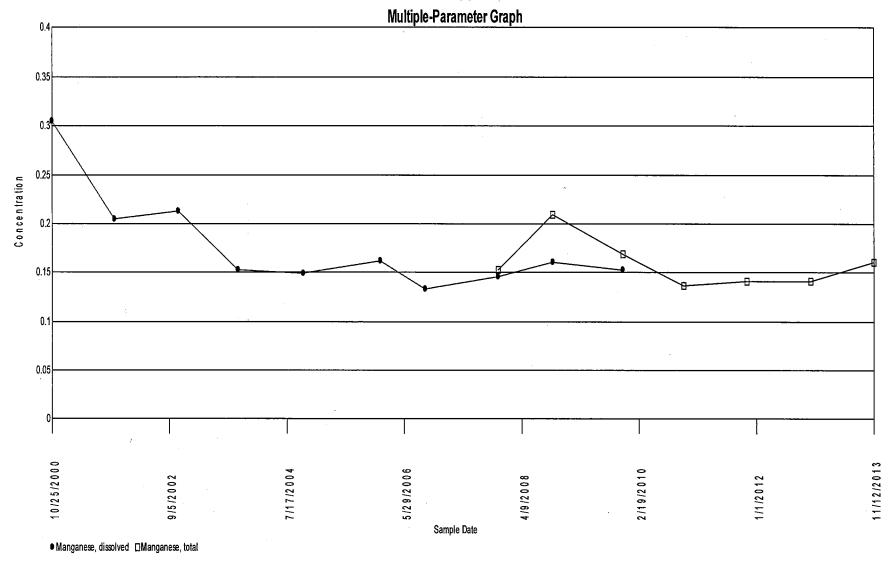
### MW09SB



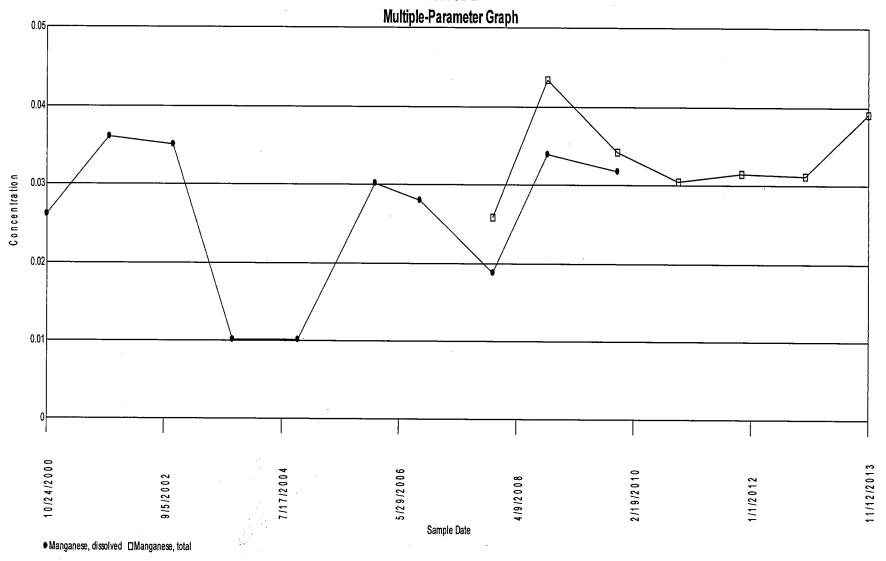
# MW10SG



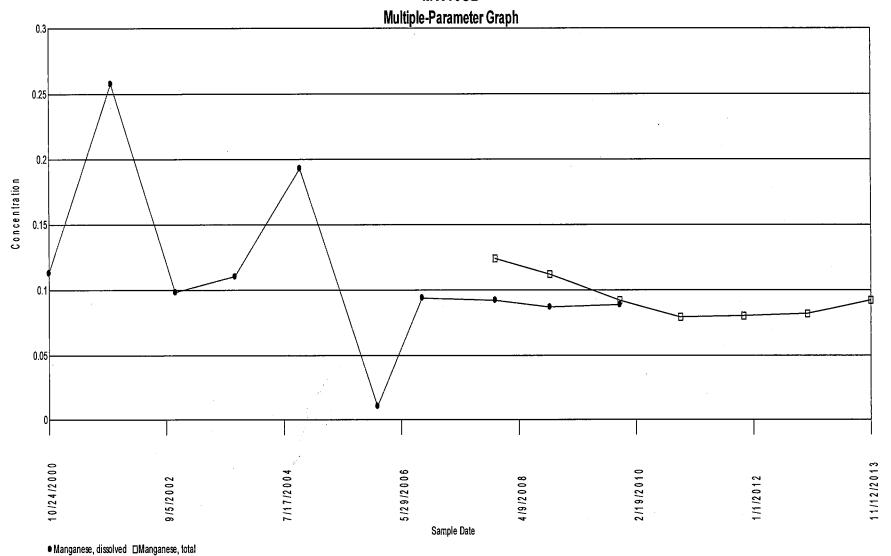
### MW15SB



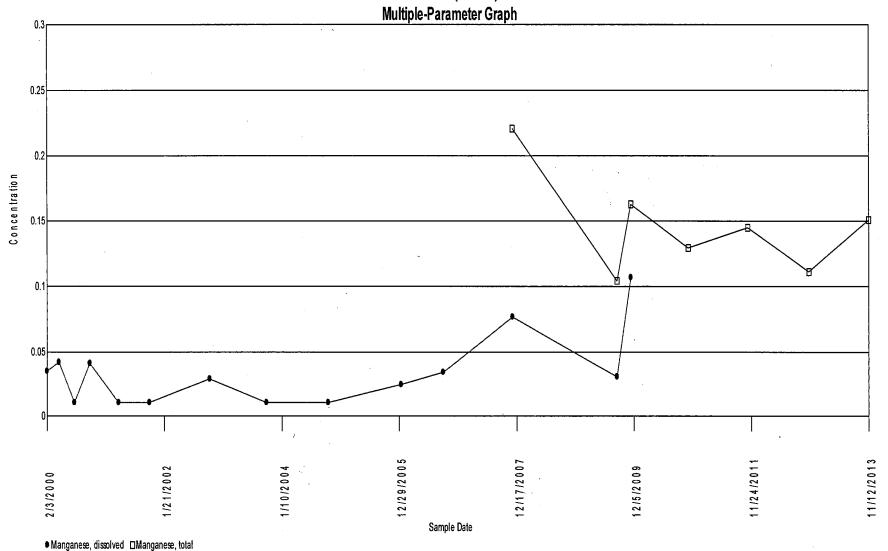
# MW16DB



### MW16SB



# MW17B (RW07)



RW04

